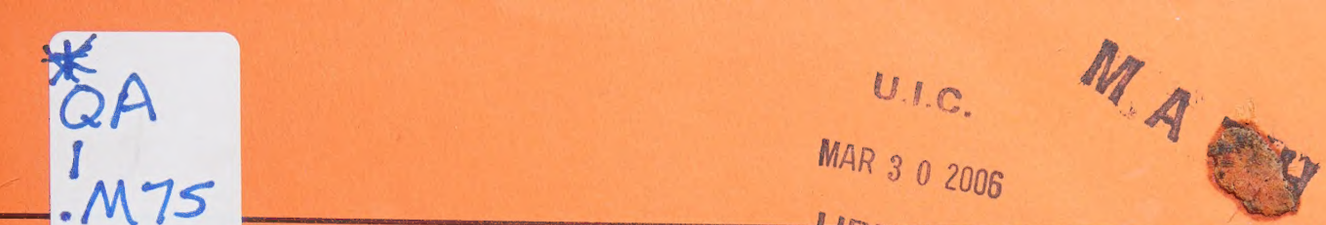
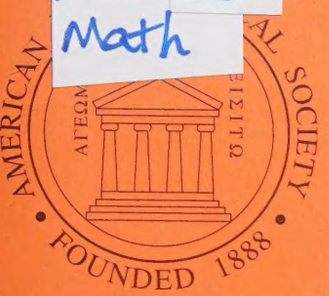
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00A71 Theory of mathematical modeling

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00A72 General methods of simulation

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00A73 Dimensional analysis

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01A80 Sociology (and profession) of mathematics

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03Bxx General logic

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03Cxx Model theory

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03C13 Finite structures [see also 68Q15, 68Q19]

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03C20 Ultraproducts and related constructions

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03C52 Properties of classes of models

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03C60 Model-theoretic algebra [see also 08C10, 12Lxx, 13L05]

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03C62 Models of arithmetic and set theory [see also 03Hxx]

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03C64 Model theory of ordered structures; o-minimality

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03C65 Models of other mathematical theories

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03C68 Other classical first-order model theory

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03C70 Logic on admissible sets

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03C75 Other infinitary logic

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03C80 Logic with extra quantifiers and operators [see also 03B42, 03B44, 03B45, 03B48]

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03C85 Second- and higher-order model theory

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03C90 Nonclassical models (Boolean-valued, sheaf, etc.)

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03C95 Abstract model theory

(Barwise, Kenneth Jon) *see* **Väänänen, Jouko, 2005e:03083**
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03C98 Applications of model theory [see also 03C60]

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03C99 None of the above, but in this section

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03Dxx Computability and recursion theory

03D03 Thue and Post systems, etc.

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Soare, Robert I. Computability theory and differential geometry. (English summary) **2005m:03084**
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03D15 Complexity of computation [see also 68Q15, 68Q17]

Aehlig, Klaus (*with* Berger, Ulrich; Hofmann, Martin; Schwichtenberg, Helmut) An arithmetic for non-size-increasing polynomial-time computation. (English summary) **2005f:03056**
Ambos-Spies, Klaus Problems which cannot be reduced to any proper subproblems. (English summary) **2005e:03089**
Bel′tyukov, A. P. A strong induction scheme that leads to polynomially computable realizations. (English summary) **2005g:03054**
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Niggl, Karl-Heinz Control structures in programs and computational complexity. (English summary) **2005m:03080**
— *see also* **Kristiansen, Lill, 2005g:03056**
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— Type inference for light affine logic via constraints on words. (English summary) **2005k:68020**
Beckmann, Arnold A note on universal measures for weak implicit computational complexity. (English summary) (*see* **2005c:68007**)
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Chateau, A. On the complexity of decision using destinies in H-bounded structures. (English summary) **2005d:03021**
Clote, Peter (*with* Kranakis, Evangelos) ★ Boolean functions and computation models. **2005d:68002**
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Dawar, Anuj (*with* Grädel, Erich; Kreutzer, Stephan) Inflationary fixed points in modal logic. (English summary) **2005a:03041**
Diekert, Volker (*with* Lohrey, Markus) Existential and positive theories of equations in graph products. (English summary) **2005a:03023**
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Hitchcock, John M. Small spans in scaled dimension. (English summary) **2005k:68065**
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Leivant, Daniel Intrinsic reasoning about functional programs. II. Unipolar induction and primitive-recursion. (English summary) **2005f:03064**
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Ong, C.-H. Luke *see* **Murawski, A. S., 2005f:03094**
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Pollett, Christopher $S_{k,\exp}$ does not prove NP = co-NP uniformly. (English and Russian summaries) **2005b:03139**
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Simpson, Stephen G. Mass problems and randomness. (English summary) **2005k:03097**
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Sureson, Claude Analytic sets in descriptive set theory and NP sets in complexity theory. (English summary) **2005b:03112**
Szwast, Wiesław (*with* Tendera, Lidia) The guarded fragment with transitive guards. (English summary) **2005d:03022**
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Terui, Kazushige Light affine set theory: a naive set theory of polynomial time. (English summary) **2005e:03139**
Terwijn, S. A. Complexity and randomness. (English summary) **2005k:68102**
Vinodchandran, N. V. $AM_{exp} \not\subseteq (NP \cap coNP)/poly$. (English summary) **2005e:68072**
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Wells, Benjamin Franklin, III Hypercomputation by definition. (English summary) **2005f:03060**
Zilles, Sandra Intrinsic complexity of uniform learning. (English summary) **2005b:68159**
Zimand, Marius ★ Computational complexity: a quantitative perspective. **2005m:68005**

03D20 Recursive functions and relations, subrecursive hierarchies

Aehlig, Klaus (*with* Johannsen, Jan) An elementary fragment of second-order lambda calculus. (English summary) **2005m:03081**
Johannsen, Jan *see* **Aehlig, Klaus, 2005m:03081**
Kalimullin, Iskander On primitive recursive permutations. (English summary) **2005d:03075**
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Mazzanti, Stefano Bounded iteration and unary functions. (English summary) **2005m:03082**

Podzorov, S. Yu. On the limit property of the largest element of a Rogers semilattice. (Russian. Russian summary) **2005m:03083**
Pöschel, Reinhard (*with* Semigrodskikh, A. P.; Vogler, Heiko) Relationally defined clones of tree functions closed under selection or primitive recursion. (English summary) **2005e:03091**
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Burgin, Mark Nonlinear phenomena in spaces of algorithms. (English summary) **2005a:68064**
Busse, Edgar *see* **Ambos-Spies, Klaus, 2005a:03078**
Chong, C. T. *see* **Arslanov, Marat M. et al., 2005g:03059**
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da Costa, Newton C. A. (*with* Doria, F. A.) On set theory as a foundation for computer science. (English summary) **2005f:03016**
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Frolov, AndreĭNikolaevich Set-theoretic structure of computable sets. (Russian) **2005e:03097**
Grzegorczyk, Andrzej Decidability without mathematics. (English summary) **2005c:03083**
Leivant, Daniel Peano's lambda calculus: the functional abstraction implicit in arithmetic. (English summary) **2005b:03036**
— Intrinsic reasoning about functional programs. II. Unipolar induction and primitive-recursion. (English summary) **2005f:03064**
Luna, Francesco Research and development in computable production functions. (English summary) **2005g:91131**
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Murawski, A. S. (*with* Ong, C.-H. Luke) On an interpretation of safe recursion in light affine logic. (English summary) **2005f:03094**
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Niggl, Karl-Heinz Control structures in programs and computational complexity. (English summary) **2005m:03080**
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Ostrin, G. E. (*with* Wainer, S. S.) Elementary arithmetic. (English summary) **2005m:03124**
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03D25 Recursively (computably) enumerable sets and degrees

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Cholak, Peter A. (*with* Downey, Rodney G.) Invariance and noninvariance in the lattice of Π^0_1 classes. (English summary) **2005e:03092**
Dichev, Angel V. Some results on the upper-semilattice of r.e. m-degrees inside a single r.e. tt-degree. (English summary) **2005h:03078**
Dimitrov, Rumen D. Quasimaximality and principal filters isomorphism between $\mathscr{E}^*$ and $\mathscr{L}^*(V_\infty)$. (English summary) **2005b:03100**
Downey, Rodney G. *see* **Cholak, Peter A., 2005e:03092**
Gasarch, William Gems in the field of bounded queries. (English summary) **2005e:03093**
Griffiths, Evan J. Completely mitotic c.e. degrees and non-jump inversion. (English summary) **2005j:03031**
Ho, Kejia (*with* Stephan, Frank) Simple sets and Σ_3 ideals under m-reducibility. **2005f:03059**
Kalimullin, Iskander Definability of the jump operator in the enumeration degrees. (English summary) **2005d:03076**
Li, Angsheng (*with* Yang, Yue) Definability in local degree structures—a survey of recent results related to jump classes. (English summary) **2005a:03084**
— (*with* Zhao, Yicheng) Plus cupping degrees do not form an ideal. (English summary) **2005k:03095**
— *see also* **Li, Dengfeng, 2005a:03085**
Li, Dengfeng (*with* Li, Angsheng) A minimal pair joining to a plus cupping Turing degree. (English summary) **2005a:03085**
Miller, Russell G. (*with* Nies, Andre O.; Shore, Richard A.) The $\forall\exists$-theory of $\mathscr{R}(\leq, \vee, \wedge)$ is undecidable. (English summary) **2005g:03057**
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Omanadze, Roland Sh. Quasi-degrees of recursively enumerable sets. (English summary) **2005b:03101**
Shore, Richard A. *see* **Miller, Russell G. et al., 2005g:03057**
Soare, Robert I. Computability theory and differential geometry. (English summary) **2005m:03084**
Stephan, Frank *see* **Ho, Kejia, 2005f:03059**
Walk, Stephen M. Lattice embeddings and array noncomputable degrees. (English summary) **2005d:03077**
Wu, Guo Hua[3] Diamond embeddings into the D.C.E. degrees with 0 and 1 preserved. **2005c:03076**
— Bi-isolation in the D.C.E. degrees. (English summary) **2005d:03078**
— Quasi-complements of the cappable degrees. (English summary) **2005h:03079**
Yang, Yue *see* **Li, Angsheng, 2005a:03084** *and* **Yu, Liang[1], 2005k:03096**
Yu, Liang[1] (*with* Yang, Yue) On the definable ideal generated by nonbounding c.e. degrees. (English summary) **2005k:03096**
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Cooper, S. Barry ★ Computability theory. **2005h:03001**
— *see also* **Arslanov, Marat M. et al., 2005j:03032**
Davie, George Characterising the Martin-Löf random sequences using computably enumerable sets of measure one. (English summary) **2005h:03084**
Ding, De Cheng *see* **Yu, Liang[1], 2005d:03081**
Downey, Rodney G. (*with* Griffiths, Evan J.; Laforte, Geoffrey) On Schnorr and computable randomness, martingales, and machines. (English summary) **2005h:03085**
Frolov, AndreĭNikolaevich Set-theoretic structure of computable sets. (Russian) **2005e:03097**
Griffiths, Evan J. *see* **Downey, Rodney G. et al., 2005h:03085**
Laforte, Geoffrey *see* **Downey, Rodney G. et al., 2005h:03085**
Li, Angsheng *see* **Arslanov, Marat M. et al., 2005j:03032**
Manukyan, S. N. Some algebras of recursively enumerable sets and their applications to fuzzy logic. (Russian. English and Russian summaries) **2005a:03129**
Nabutovsky, Alexander (*with* Weinberger, Shmuel) The fractal nature of Riem/Diff. I. (English summary) **2005d:53063**
Podzorov, S. Yu. On the limit property of the largest element of a Rogers semilattice. (Russian. Russian summary) **2005m:03083**
Simpson, Stephen G. Mass problems and randomness. (English summary) **2005k:03097**
Sutner, Klaus Cellular automata and intermediate reachability problems. (English summary) **2005g:68109**
— The complexity of reversible cellular automata. (English summary) **2005g:68111**
Weinberger, Shmuel *see* **Nabutovsky, Alexander, 2005d:53063**
Wu, Guo Hua[3] Regular reals. (English summary) **2005m:03133**
Yu, Liang[1] (*with* Ding, De Cheng) Infimum properties differ in the weak truth-table degrees and the Turing degrees. (English summary) **2005d:03081**

03D28 Other Turing degree structures

Arslanov, Marat M. (*with* Cooper, S. Barry; Li, Angsheng) Corrigendum: "There is no low maximal d.c.e. degree" [MLQ Math. Log. Q. **46** (2000), no. 3, 409–416; MR1774682 (2001e:03076)]. (English summary) **2005j:03032**
Cooper, S. Barry *see* **Arslanov, Marat M. et al., 2005j:03032**
Dobrinen, Natasha L. (*with* Simpson, Stephen G.) Almost everywhere domination. (English summary) **2005d:03079**
Downey, Rodney G. (*with* Yu, Liang[1]) There are no maximal low d.c.e. degrees. (English summary) **2005m:03085**
Englert, Burkhard (*with* Lerman, Manuel; Wald, Kevin) Homomorphisms and quotients of degree structures. (English summary) **2005g:03058**
Greenberg, Noam (*with* Montalbán, Antonio) Embedding and coding below a 1-generic degree. (English summary) **2005m:03086**
Lerman, Manuel *see* **Englert, Burkhard et al., 2005g:03058**
Lewis, Andrew E. M. Finite cupping sets. (English summary) **2005e:03094**
— Minimal complements for degrees below $\mathbf{0}'$. (English summary) **2005m:03087**
Li, Angsheng *see* **Arslanov, Marat M. et al., 2005j:03032**
Montalbán, Antonio *see* **Greenberg, Noam, 2005m:03086**
Mytilinaios, Michael E. (*with* Slaman, Theodore A.) Differences between resource bounded degree structures. (English summary) **2005c:03077**
Simpson, Stephen G. *see* **Dobrinen, Natasha L., 2005d:03079**
Slaman, Theodore A. *see* **Mytilinaios, Michael E., 2005c:03077**
Wald, Kevin *see* **Englert, Burkhard et al., 2005g:03058**
Yu, Liang[1] *see* **Downey, Rodney G., 2005m:03085**

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Abraham, Uri (*with* Geschke, Stefan) Covering $\mathbb{R}^{n+1}$ by graphs of n-ary functions and long linear orderings of Turing degrees. (English summary) **2005c:03090**
Ambos-Spies, Klaus Problems which cannot be reduced to any proper subproblems. (English summary) **2005e:03089**
Geschke, Stefan *see* **Abraham, Uri, 2005c:03090**
Goncharov, Sergeĭ Savost′yanovich (*with* Harizanov, Valentina S.; Knight, Julia F.; Shore, Richard A.) Π^1_1 relations and paths through $\mathscr{O}$. **2005d:03083**
Harizanov, Valentina S. *see* **Goncharov, Sergeĭ Savost′yanovich et al., 2005d:03083**
Knight, Julia F. *see* **Goncharov, Sergeĭ Savost′yanovich et al., 2005d:03083**
Mildenberger, Heike (*with* Shelah, Saharon) On needed reals. (English summary) **2005c:03093**
Shelah, Saharon *see* **Mildenberger, Heike, 2005c:03093**
Shore, Richard A. *see* **Goncharov, Sergeĭ Savost′yanovich et al., 2005d:03083**
Terwijn, S. A. Complexity and randomness. (English summary) **2005k:68102**

03D30 Other degrees and reducibilities

Arslanov, Marat M. (*with* Chong, C. T.; Cooper, S. Barry; Yang, Yue) The minimal e-degree problem in fragments of Peano arithmetic. (English summary) **2005g:03059**
Chong, C. T. *see* **Arslanov, Marat M. et al., 2005g:03059**
Cooper, S. Barry *see* **Arslanov, Marat M. et al., 2005g:03059**
Ding, De Cheng *see* **Yu, Liang[1], 2005d:03081**
Miller, Joseph S. Degrees of unsolvability of continuous functions. (English summary) **2005b:03102**
Simpson, Stephen G. Mass problems and randomness. (English summary) **2005k:03097**
Solon, Boris Local properties of the non-total enumeration degrees. (English summary) **2005d:03080**
Soskov, Ivan N. *see* **Soskova, Alexandra, 2005c:03078**
Soskova, Alexandra (*with* Soskov, Ivan N.) Co-spectra of joint spectra of structures. (English summary) **2005c:03078**
Yang, Yue *see* **Arslanov, Marat M. et al., 2005g:03059**
Yu, Liang[1] (*with* Ding, De Cheng) Infimum properties differ in the weak truth-table degrees and the Turing degrees. (English summary) **2005d:03081**

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Ambos-Spies, Klaus Problems which cannot be reduced to any proper subproblems. (English summary) **2005e:03089**
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03D35 Undecidability and degrees of sets of sentences

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03D45 Theory of numerations, effectively presented structures [see also 03C57; for intuitionistic and similar approaches see 03F55]

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03D50 Recursive equivalence types of sets and structures, isols

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03D55 Hierarchies

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Cenzer, Douglas (*with* Remmel, Jeffrey B.) Index sets for computable differential equations. (English summary) **2005h:03083**
Costa, José Félix *see* **Mycka, Jerzy, 2005g:68036**
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Hemmerling, Armin Characterizations of the class Δ^{1a}_2 over Euclidean spaces. (English summary) **2005e:03099**
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03D60 Computability and recursion theory on ordinals, admissible sets, etc.

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Stukachev, A. I. Σ-definability in hereditarily finite superstructures, and pairs of models. (Russian. Russian summary) **2005g:03047**

03D65 Higher-type and set recursion theory

Hemmerling, Armin Characterizations of the class Δ_2^{ta} over Euclidean spaces. (English summary) **2005e:03099**
Ignjatovic, Aleksandar (*with* Sharma, Arun K.) Some applications of logic to feasibility in higher types. (English summary) **2005f:03063**
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03D70 Inductive definability

Kozen, Dexter Computational inductive definability. (English summary) **2005e:03101**

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03D75 Abstract and axiomatic computability and recursion theory

Grzegorczyk, Andrzej Decidability without mathematics. (English summary) **2005c:03083**
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Davie, George Characterising the Martin-Löf random sequences using computably enumerable sets of measure one. (English summary) **2005h:03084**
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03Exx Set theory

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Shelah, Saharon Anti-homogeneous partitions of a topological space. (English summary) **2005e:03113**
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03E04 Ordered sets and their cofinalities; pcf theory

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Foreman, Matthew *see* **Cummings, James et al.**, **2005k:03105**
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Kada, Masaru *see* **Burke, Maxim R.**, **2005g:03074**
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03E05 Other combinatorial set theory

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03E10 Ordinal and cardinal numbers

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Meiringer, Markus Betrachtungen zum Satz von Bernstein. [On Bernstein's theorem] **2005f:03070**
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03E15 Descriptive set theory [see also 28A05, 54H05]

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— (*with* Bosch, Roger) Solovay models and forcing extensions. (English summary) **2005e:03103**
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03E17 Cardinal characteristics of the continuum

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03E35 Consistency and independence results

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Ciesielski, Krzysztof[2] (*with* Pawlikowski, Janusz) Continuous images of big sets and additivity of s_0 under $\mathrm{CPA}_{\mathrm{prism}}$. (English summary) **2005f:03075**
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Welch, Philip David On unfoldable cardinals, ω-closed cardinals, and the beginning of the inner model hierarchy. (English summary) **2005c:03096**
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03E47 Other notions of set-theoretic definability

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03E55 Large cardinals

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03E60 Determinacy principles

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03Fxx Proof theory and constructive mathematics

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03F10 Functionals in proof theory

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— (*with* Galesi, Nicola; Pudlák, Pavel) Monotone simulations of non-monotone proofs. (English summary) **2005a:03115**
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Beckmann, Arnold (*with* Johannsen, Jan) An unexpected separation result in linearly bounded arithmetic. (English summary) **2005k:03128**
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Lafont, Yves Soft linear logic and polynomial time. (English summary) **2005i:03072**
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03F25 Relative consistency and interpretations

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Niebergall, Karl-Georg Is ZF finitistically reducible? (English summary) **2005h:03106**
Visser, Albert Faith & falsity. (English summary) **2005g:03100**
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Beckmann, Arnold Preservation theorems and restricted consistency statements in bounded arithmetic. (English summary) **2005k:03131**
Holmes, M. Randall The structure of the ordinals and the interpretation of ZF in double extension set theory. (English summary) **2005m:03102**
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03F30 First-order arithmetic and fragments

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Salehi, Saeed Provably total functions of basic arithmetic. (English summary) **2005d:03106**
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Niebergall, Karl-Georg Is ZF finitistically reducible? (English summary) **2005h:03106**
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03F35 Second- and higher-order arithmetic and fragments [see also 03B30]

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Mummert, Carl (*with* Simpson, Stephen G.) An incompleteness theorem for β_n-models. (English summary) **2005c:03112**
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Dobrinen, Natasha L. (*with* Simpson, Stephen G.) Almost everywhere domination (English summary) **2005d:03079**
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03F40 Gödel numberings in proof theory

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Qin, Yi Ming A simple proof of Gödel incompleteness theorems for formal Peano arithmetic. (Chinese. English and Chinese summaries) **2005g:03104**
Willard, Dan E. Some new exceptions for the semantic tableaux version of the second incompleteness theorem. (English summary) **2005a:03119**

03F45 Provability logics and related algebras (e.g., diagonalizable algebras) [see also 03B45, 03G25, 06E25]

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Fitting, Melvin The logic of proofs, semantically. (English summary) **2005i:03071**
Yavorskiĭ, R. È. The prenex fragment of provability logic with quantifiers on proofs. (Russian. Russian summary) **2005e:03130**

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Égré, Paul The Knower paradox in the light of provability interpretations of modal logic. (English summary) **2005k:03033**
Esakia, Leo Intuitionistic logic and modality via topology. (English summary) **2005c:03030**
Visser, Albert Faith & falsity. (English summary) **2005g:03100**

03F50 Metamathematics of constructive systems

Baaz, Matthias Note on a translation to characterize constructivity. (English summary) **2005a:03121**
Bell, John L. Russell's paradox and diagonalization in a constructive context. (English summary) **2005h:03112**
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Jäger, Gerhard An intensional fixed point theory over first order arithmetic. (English summary) **2005d:03099**
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03F52 Linear logic and other substructural logics [see also 03B47]

van Alten, Clint J. (*with* Raftery, James G.) Rule separation and embedding theorems for logics without weakening. (English summary) **2005e:03132**
— The finite model property for knotted extensions of propositional linear logic. (English summary) **2005m:03127**
Baillot, Patrick Stratified coherence spaces: a denotational semantics for light linear logic. (English summary) **2005g:03105**
Blute, Richard (*with* Hamano, Masahiro; Scott, Philip) Softness of hypercoherences and MALL full completeness. (English summary) **2005k:03134**
Dal Lago, Ugo On the expressive power of light affine logic. (English summary) **2005b:03141**
— (*with* Martini, Simone) Phase semantics and decidability of elementary affine logic. (English summary) **2005e:03133**
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03F55 Intuitionistic mathematics

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03F60 Constructive and recursive analysis [see also 03B30, 03D45, 26E40, 46S30, 47S30]

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03F65 Other constructive mathematics [see also 03D45]

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03Gxx Algebraic logic

03G05 Boolean algebras [see also 06Exx]

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— (*with* Rubin, Matatyahu) A note on well-generated Boolean algebras in models satisfying Martin's axiom. (English summary) **2005k:03142**
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Grygiel, Joanna Application of the Cantor-Bendixon construction to the problem of freely generated filters. (English summary) **2005b:03147**
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Qi, Guilin (*with* Liu, Weiru) Rough operations on Boolean algebras. (English summary) **2005m:03135**
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Alaev, P. E. Hyper-arithmetic Boolean algebras with a distinguished ideal. (Russian. Russian summary) **2005h:03080**
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Foldes, Stephan (*with* Pogosyan, Grant R.) Post classes characterized by functional terms. (English summary) **2005d:06017**
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McKenzie, Ralph (*with* Monk, J. Donald) On some small cardinals for Boolean algebras. (English summary) **2005f:03066**
Milne, Peter Algebras of intervals and a logic of conditional assertions. (English summary) **2005k:03071**
Monk, J. Donald The spectrum of maximal independent subsets of a Boolean algebra. (English summary) **2005b:06022**
— *see also* **McKenzie, Ralph, 2005f:03066**
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Rubin, Matatyahu On $L_{\alpha,\omega}$ complete extensions of complete theories of Boolean algebras. (English summary) **2005d:03060**
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Arslanov, Marat M. (*with* Chong, C. T.; Cooper, S. Barry; Yang, Yue) The minimal e-degree problem in fragments of Peano arithmetic. (English summary) **2005g:03059**
Beckmann, Arnold Preservation theorems and restricted consistency statements in bounded arithmetic. (English summary) **2005k:03131**
Chong, C. T. *see* **Arslanov, Marat M. et al.**, **2005g:03059**
Cooper, S. Barry *see* **Arslanov, Marat M. et al.**, **2005g:03059**
Cordón-Franco, Andrés (*with* Fernández-Margarit, Alejandro; Lara-Martín, F. Félix) On the quantifier complexity of $\Delta_{n+1}(T)$-induction. (English summary) **2005c:03109**
— (*with* Fernández-Margarit, Alejandro; Lara-Martín, F. Félix) Fragments of arithmetic and true sentences. (English summary) **2005m:03122**
Fernández-Margarit, Alejandro (*with* Lara-Martín, F. Félix) Induction, minimization and collection for $\Delta_{n+1}(T)$-formulas. (English summary) **2005e:03126**
— *see also* **Cordón-Franco, Andrés et al.**, **2005c:03109** *and* **2005m:03122**
Gaifman, Haim Non-standard models in a broader perspective. (English summary) **2005e:03008**
Kołodziejczyk, Leszek Aleksander *see* **Adamowicz, Zofia**, **2005h:03107**
Lara-Martín, F. Félix *see* **Cordón-Franco, Andrés et al.**, **2005c:03109**; **2005m:03122** *and* **Fernández-Margarit, Alejandro**, **2005e:03126**
Moniri, Morteza Corrigendum to: "Weak arithmetics and Kripke models" [MLQ Math. Log. Q. **48** (2002), no. 1, 157–160; MR1874213 (2002m:03092)]. (English summary) **2005g:03103**
Slaman, Theodore A. Σ_n-bounding and Δ_n-induction. (English summary) **2005b:03140**
Visser, Albert Faith & falsity. (English summary) **2005g:03100**
Yang, Yue *see* **Arslanov, Marat M. et al.**, **2005g:03059**

03H99 None of the above, but in this section

Items with secondary classifications in 03H99

Enayat, Ali Leibnizian models of set theory. (English summary) **2005e:03076**

— Models of set theory with definable ordinals. (English summary) **2005m:03098**
Hrbacek, Karel Internally iterated ultrapowers. (English summary) **2005e:03068**

05–XX Combinatorics {For finite fields, see 11Txx.}

05–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

Hivert, Florent (*with* Thiéry, Nicolas M.) MuPAD-Combinat, an open-source package for research in algebraic combinatorics. (English summary) **2005c:05001**
Thiéry, Nicolas M. *see* **Hivert, Florent**, **2005c:05001**

05–01 Instructional exposition (textbooks, tutorial papers, etc.)

Bailey, R. A. ★ Association schemes. **2005d:05001**
Brankov, Vladimir *see* **Stevanović, Dragan**
Chartrand, Gary (*with* Lesniak, Linda) ★ Graphs & digraphs. **2005g:05001**
(Colbourn, Charles J.) *see* **Stinson, Douglas R.**, **2005a:05001**
Goulden, Ian P. (*with* Jackson, David M.) ★ Combinatorial enumeration. **2005b:05001**
(Hachez, Delphine) *see* **Matoušek, Jiří**
Jackson, David M. *see* **Goulden, Ian P.**, **2005b:05001**
Jungnickel, Dieter ★ Graphs, networks and algorithms. **2005g:05002**
Kocay, William (*with* Kreher, Donald L.) ★ Graphs, algorithms, and optimization. **2005k:05001**
Kreher, Donald L. *see* **Kocay, William**, **2005k:05001**
Lesniak, Linda *see* **Chartrand, Gary**, **2005g:05001**
Matoušek, Jiří (*with* Nešetřil, Jaroslav) ★ Introduction aux mathématiques discrètes. (French) [Introduction to discrete mathematics]
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Pemmaraju, Sriram V. (*with* Skiena, Steven S.) Combinatorica: a system for exploring combinatorics and graph theory in Mathematica.
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(Schade, Tilla) *see* **Jungnickel, Dieter**, **2005g:05002**
Skiena, Steven S. *see* **Pemmaraju, Sriram V.**
Stevanović, Dragan (*with* Brankov, Vladimir) An invitation to newGRAPH. (English summary)
Stinson, Douglas R. ★ Combinatorial designs. **2005a:05001**

Items with secondary classifications in 05–01

(Albers, Donald J.) *see* **Gardner, Martin**
Bóna, Miklós ★ Combinatorics of permutations. **2005f:05001**
Cieslik, Dietmar ★ Shortest connectivity. **2005f:92018**
Gardner, Martin ★ Martin Gardner's mathematical games.
Jain, Surender Kumar *see* **Nagpaul, S. R.**, **2005m:94002**
Marchette, David J. ★ Random graphs for statistical pattern recognition. **2005f:62104**
Nagpaul, S. R. (*with* Jain, Surender Kumar) ★ Topics in applied abstract algebra. **2005m:94002**
(Renz, Peter L.) *see* **Gardner, Martin**
(Stanley, Richard P.) *see* **Bóna, Miklós**, **2005f:05001**

05–02 Research exposition (monographs, survey articles)

(Beineke, Lowell W.) *see* **Topics in algebraic graph theory**, **2005m:05002**
Dorogovtsev, Sergei N. (*with* Mendes, José F. F.) ★ Evolution of networks. **2005d:05002**
Golumbic, Martin Charles (*with* Trenk, Ann N.) ★ Tolerance graphs. **2005g:05003**
Harper, Lawrence H. ★ Global methods for combinatorial isoperimetric problems. **2005c:05002**
Hell, Pavol (*with* Nešetřil, Jaroslav) ★ Graphs and homomorphisms. **2005k:05002**
Lass, Bodo ★ Calcul combinatoire ensembliste. (French. German summary) [Set-theoretic combinatorics] **2005g:05004**
Mendes, José F. F. *see* **Dorogovtsev, Sergei N.**, **2005d:05002**
Nešetřil, Jaroslav *see* **Hell, Pavol**, **2005k:05002**
Stanley, Richard P. Recent developments in algebraic combinatorics. (English summary) **2005m:05001**
Trenk, Ann N. *see* **Golumbic, Martin Charles**, **2005g:05003**
(Wilson, Robin J.) *see* **Topics in algebraic graph theory**, **2005m:05002**

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Topics in algebraic graph theory ★ Topics in algebraic graph theory. **2005m:05002**

Items with secondary classifications in 05–02

Bollobás, Béla ★ Extremal graph theory. **2005b:05124**
Deza, Michel (*with* Grishukhin, V. P.; Shtogrin, Mikhail) ★ Scale-isometric polytopal graphs in hypercubes and cubic lattices. **2005f:52001**
Dohmen, Klaus ★ Improved Bonferroni inequalities via abstract tubes. **2005f:06001**
Grishukhin, V. P. *see* **Deza, Michel et al.**, **2005f:52001**
Lando, Sergei K. (*with* Zvonkin, Alexander K.) ★ Graphs on surfaces and their applications. **2005b:14068**
Schrijver, Alexander Matching, edge-colouring, dimers. (English summary) (*see* **2005b:05002**)
Shtogrin, Mikhail *see* **Deza, Michel et al.**, **2005f:52001**
(Zagier, Don B.) *see* **Lando, Sergei K.**, **2005b:14068**
Zvonkin, Alexander K. *see* **Lando, Sergei K.**, **2005b:14068**

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Encyclopaedia of Mathematical Sciences *see* **Lando, Sergei K.**, **2005b:14068**
Lecture Notes in Mathematics *see* **Dohmen, Klaus**, **2005f:06001**

05–03 Historical (must also be assigned at least one classification number from Section 01)

(de Caen, Dom) *see* **van Dam, Edwin R.**, **2005j:05001**
van Dam, Edwin R. The combinatorics of Dom de Caen. (English summary) **2005j:05001**
Wilson, Robin J. The early history of block designs. (English summary) **2005k:05003**

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de Caen, Dominique *see* **van Dam, Edwin R.**, **2005j:05001**
Biography:
de Caen, Dominique *see* **van Dam, Edwin R.**, **2005j:05001**

Items with secondary classifications in 05–03

Balaban, Alexandru T. Recollections about Professor Oskar E. Polansky: a personal account occasioned by the 30th anniversary of MATCH.
(Polansky, Oskar E.) *see* **Balaban, Alexandru T.**
(Robbins, David P.) *see* **Zeilberger, Doron**
Sesiano, Jacques ★ Les carrés magiques dans les pays islamiques. (French) [Magic squares in the Islamic world] **2005f:01005**
Zeilberger, Doron Dave Robbins' art of guessing. (English summary)

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Biography:
Polansky, Oskar E. *see* **Balaban, Alexandru T.**

05–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 05–04

Hivert, Florent (*with* Thiéry, Nicolas M.) MuPAD-Combinat, an open-source package for research in algebraic combinatorics. (English summary) **2005c:05001**
Thiéry, Nicolas M. *see* **Hivert, Florent**, **2005c:05001**

05–06 Proceedings, conferences, collections, etc.

(Ben-Naim, Eli) *see* **Complex networks**, **2005g:05005**
(Bodlaender, Hans L.) *see* **Graph-theoretic concepts in computer science**, **2005b:05002**
Borowiecki, Mieczysław Preface [Selected papers from the 10th Workshop on Graph Theory: Colourings, Independence and Domination (CID)].
Cameron, Peter J. Research problems from the 19th British Combinatorial Conference.
Cvetković, Dragoš M. (*with* Rowlinson, Peter; Simić, Slobodan K.) ★ Spectral generalizations of line graphs. **2005m:05003**
(Frauenfelder, H.) *see* **Complex networks**, **2005g:05005**
Rowlinson, Peter *see* **Cvetković, Dragoš M. et al.**, **2005m:05003**
Simić, Slobodan K. *see* **Cvetković, Dragoš M. et al.**, **2005m:05003**
(Toroczkai, Zoltán) *see* **Complex networks**, **2005g:05005**
(Wallis, Walter D.) *see* **Designs**, **2005d:05003**
(Warnow, Tandy) *see* **Computing and combinatorics**, **2005a:05002**
(Zhu, Binhai) *see* **Computing and combinatorics**, **2005a:05002**

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Big Sky, MT ★ Computing and combinatorics. **2005a:05002**
Boca Raton, FL ★ Proceedings of the Thirty-Fifth Southeastern International Conference on Combinatorics, Graph Theory and Computing.
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Designs ★ Designs 2002. **2005d:05003**
Elspeet ★ Graph-theoretic concepts in computer science. **2005b:05002**
Graph-theoretic concepts in computer science ★ Graph-theoretic concepts in computer science. **2005b:05002**
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— ★ Graph-theoretic concepts in computer science. **2005b:05002**
Lecture Notes in Physics ★ Complex networks. **2005g:05005**
Problems:
Discrete mathematics *see* **Cameron, Peter J.**
Proceedings:
Conference on Combinatorics, Graph Theory and Computing, 35th Southeastern International ★ Proceedings of the Thirty-Fifth Southeastern International Conference on Combinatorics, Graph Theory and Computing.
— ★ Proceedings of the Thirty-Fifth Southeastern International Conference on Combinatorics, Graph Theory and Computing.
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Proceedings: (*cont'd.*)
— ★ Proceedings of the Thirty-Fifth Southeastern International Conference on Combinatorics, Graph Theory and Computing.
Symposium:
Graphs, Designs, and Applications, International International Symposium on Graphs, Designs, and Applications. (Italian)

Items with secondary classifications in 05–06

(Akiyama, Jin) *see* **Discrete and computational geometry**, **2005f:52002**
(Drmota, Michael) *see* **Mathematics and computer science. III**, **2005d:00014**
(Feng, Ke Qin) *see* **Coding, cryptography and combinatorics**, **2005c:94005**
(Flajolet, Philippe) *see* **Mathematics and computer science. III**, **2005d:00014**
(Gardy, Danièle) *see* **Mathematics and computer science. III**, **2005d:00014**
(Gittenberger, Bernhard) *see* **Mathematics and computer science. III**, **2005d:00014**
(Grötschel, Martin) *see* **Sharpest cut**, **2005b:90009**
(Harris, Bennette R.) *see* **Advances in algebra towards millennium problems**, **2005i:00013**
(Ibarra, Oscar H.) *see* **Computing and combinatorics**, **2005a:68012**
(Jain, Sapna) *see* **Advances in algebra towards millennium problems**, **2005i:00013**
(Kano, Mikio) *see* **Discrete and computational geometry**, **2005f:52002**
(Kim, Dae Kyung[2]) *see* **Advances in algebra towards millennium problems**, **2005i:00013**
(Kim, Yangkon) *see* **Advances in algebra towards millennium problems**, **2005i:00013**
Knuth, Donald E. ★ Selected papers on discrete mathematics. **2005c:01030**
(Kučera, Luděk) *see* **Graph-theoretic concepts in computer science**, **2005a:68015**
(Nam, Ki-Bong) *see* **Advances in algebra towards millennium problems**, **2005i:00013**
(Niederreiter, Harald) *see* **Coding, cryptography and combinatorics**, **2005c:94005**
(Padberg, Manfred) *see* **Sharpest cut**, **2005b:90009**
(Seo, DaeWoong) *see* **Advances in algebra towards millennium problems**, **2005i:00013**
(Seo, GyeongSig) *see* **Advances in algebra towards millennium problems**, **2005i:00013**
Vuillon, Laurent Foreword [Combinatorics of the discrete plane and tilings].
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(Zhang, Louxin) *see* **Computing and combinatorics**, **2005a:68012**

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Advances in algebra towards millennium problems ★ Advances in algebra towards millennium problems. **2005i:00013**
Aveiro ★ Aveiro Seminar on Control, Optimization, and Graph Theory.
Berlin ★ The sharpest cut. **2005b:90009**
Český Krumlov ★ Graph-theoretic concepts in computer science. **2005a:68015**
Chonbuk ★ Advances in algebra towards millennium problems. **2005i:00013**
Coding, cryptography and combinatorics ★ Coding, cryptography and combinatorics. **2005c:94005**
Collected Works:
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Computing and combinatorics ★ Computing and combinatorics. **2005a:68012**
Discrete and computational geometry ★ Discrete and computational geometry. **2005f:52002**
Graph-theoretic concepts in computer science ★ Graph-theoretic concepts in computer science. **2005a:68015**
Lecture Notes in Computer Science ★ Computing and combinatorics. **2005a:68012**
— ★ Graph-theoretic concepts in computer science. **2005a:68015**
— ★ Discrete and computational geometry. **2005f:52002**
Mathematics and computer science. III ★ Mathematics and computer science. III. **2005d:00014**
Selected papers on discrete mathematics *see* **Knuth, Donald E.**, **2005c:01030**
Seminar:
Control, Optimization, and Graph Theory, Aveiro ★ Aveiro Seminar on Control, Optimization, and Graph Theory.
Sharpest cut ★ The sharpest cut. **2005b:90009**
Singapore ★ Computing and combinatorics. **2005a:68012**
Tokyo ★ Discrete and computational geometry. **2005f:52002**
Vienna ★ Mathematics and computer science. III. **2005d:00014**

05Axx Enumerative combinatorics

Items with secondary classifications in 05Axx

Goulden, Ian P. (*with* Jackson, David M.) ★ Combinatorial enumeration. **2005b:05001**
Jackson, David M. *see* **Goulden, Ian P.**, **2005b:05001**
(Rota, Gian-Carlo) *see* **Goulden, Ian P.**, **2005b:05001**

05A05 Combinatorial choice problems (subsets, representatives, permutations)

Aigner, Martin Variants of the majority problem. (English summary) **2005b:05003**
— The k-equal problem. (English summary) **2005m:05004**
Albert, Michael H. (*with* Aldred, R. E. L.; Atkinson, M. D.; van Ditmarsch, H. P.; Handley, C. C.; Holton, D. A.) Restricted permutations and queue jumping. (English summary) **2005d:05004**
Aldred, R. E. L. *see* **Albert, Michael H. et al.**, **2005d:05004**
Ardila, Federico The number of halving circles.
Atkinson, M. D. *see* **Albert, Michael H. et al.**, **2005d:05004**
Bagno, Eli Euler-Mahonian parameters on colored permutation groups. (English summary) **2005k:05004**
Bennett, Geoffrey Keith (*with* Grannell, M. J.; Griggs, T. S.) Exponential lower bounds for the numbers of Skolem-type sequences. (English summary)
Bergeron, Anne (*with* Stoye, Jens) On the similarity of sets of permutations and its applications to genome comparison. (English summary) (*see* **2005a:05002**)
Bollobás, Béla (*with* Leader, Imre) Union of shadows. (English summary) **2005c:05003**
Bóna, Miklós ★ Combinatorics of permutations. **2005f:05001**
— A simple proof for the exponential upper bound for some tenacious patterns. (English summary) **2005b:05004**
— The limit of a Stanley-Wilf sequence is not always rational, and layered patterns beat monotone patterns. (English summary) **2005k:05005**
Bonomo, John P. (*with* Cuff, Carolyn K.) How do you stack up?
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Chen, Gang[3] (*with* Feng, Zhi Gang[1]; Chen, Li Hong) A new image encryption algorithm (Chinese. English and Chinese summaries)
Chen, Li Hong *see* **Chen, Gang[3] et al.**
Chinn, Phyllis (*with* Heubach, Silvia) $(1,k)$-compositions. (English summary) **2005a:05003**
— (*with* Niederhausen, Heinrich) Compositions into powers of 2. (English summary)
Cooper, Joshua N. (*with* Graham, Ronald L.) Generalized de Bruijn cycles. (English summary) **2005b:05005**
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van Ditmarsch, H. P. *see* **Albert, Michael H. et al.**, **2005d:05004**
Doerr, Benjamin Global roundings of sequences. (English summary) **2005f:05003**
Dubois, Olivier (*with* Louchard, Guy; Mandler, Jacques) Additive decompositions, random allocations, and threshold phenomena. (English summary) **2005k:05006**
Egge, Eric S. (*with* Mansour, Toufik) 231-avoiding involutions and Fibonacci numbers. (English summary) **2005d:05006**
Elizalde, Sergi (*with* Pak, Igor) Bijections for refined restricted permutations. (English summary) **2005a:05004**
Feng, Zhi Gang[1] *see* **Chen, Gang[3] et al.**
Franz, Reinhard O. W. On the representation of meanders. (English summary) **2005e:05001**
Fulman, Jason A card shuffling analysis of deformations of the Plancherel measure of the symmetric group. (English summary) **2005d:05007**
Graham, Ronald L. *see* **Cooper, Joshua N.**, **2005b:05005**
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Heubach, Silvia *see* **Chinn, Phyllis**, **2005a:05003**
Hildebrand, Martin (*with* Sagan, Bruce E.; Vatter, Vincent R.) Bounding quantities related to the packing density of $1(l+1)l\cdots 2$. (English summary) **2005e:05002**
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Huang, Ben Wen (*with* Lü, Yu Xiang; Liao, Xiang Jun) Quick trickle permutations. (Chinese. English and Chinese summaries) **2005b:05007**
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Jaggard, Aaron D. Prefix exchanging and pattern avoidance by involutions. (English summary) **2005b:05008**
Jouhet, Frédéric (*with* Lass, Bodo; Zeng, Jiang) Sur une généralisation des coefficients binomiaux. (English summary) [On a generalization of binomial coefficients] **2005h:05001**
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Labelle, Gilbert (*with* Lamathe, Cédric) A shifted asymmetry index series. (English summary) **2005g:05006**
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Lü, Yu Xiang *see* **Huang, Ben Wen et al.**, **2005b:05007**
Lu, Zhun Wei *see* **Xu, Cheng Xu**
Mandler, Jacques *see* **Dubois, Olivier et al.**, **2005k:05006**
Mansour, Toufik 321-avoiding permutations and Chebyshev polynomials. (English summary) (*see* **2005d:00014**)
— *see also* **Egge, Eric S.**, **2005d:05006**
Marcus, Adam (*with* Tardos, Gábor) Excluded permutation matrices and the Stanley-Wilf conjecture. (English summary) **2005b:05009**
Margolius, Barbara H. Avoiding your spouse at a bridge party.
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Miyazaki, Shuichi *see* **Halldórsson, Magnús M. et al.**, (**2005a:05002**)
Mor, Shai *see* **Linek, Vaclav**, **2005g:05007**
Moreno, Eduardo On the theorem of Fredricksen and Maiorana about de Bruijn sequences. (English summary) **2005b:05010**
Nakamigawa, Tomoki (*with* Watanabe, Mamoru) Separating pairs of points in the plane by monotone subsequences. (English summary) **2005c:05004**
Neumann, Peter M. (*with* Praeger, Cheryl E.) On tensor-factorisation problems. I. The combinatorial problem. (English summary) **2005f:05004**
Niederhausen, Heinrich *see* **Chinn, Phyllis**
O'Bryant, Kevin Sturmian words and the permutation that orders fractional parts. (English summary) **2005c:05005**
Ossona De Mendez, Patrice (*with* Rosenstiehl, Pierre) Transitivity and connectivity of permutations. (English summary) **2005e:05003**
Pak, Igor *see* **Elizalde, Sergi**, **2005a:05004**
Praeger, Cheryl E. *see* **Neumann, Peter M.**, **2005f:05004**

Quistorff, Jörn A new nonexistence result for sharply multiply transitive permutation sets. (English summary)
Regev, Amitai (*with* Roichman, Yuval) Generalized statistics on S_n and pattern avoidance. (English summary) **2005h:05002**
Reifegerste, Astrid A generalization of Simion-Schmidt's bijection for restricted permutations. (English summary) **2005c:05006**
Remmel, Jeffrey B. (*with* Wachs, Michelle L.) Rook theory, generalized Stirling numbers and (p,q)-analogues. (English summary) **2005k:05007**
Roaf, Dermot (*with* White, Arthur T.) Ringing the changes: bells and mathematics. (English summary) (*see* **2005c:00010**)
Robert, Leonel *see* **Hernández, Janko**
Robertson, Aaron Restricted permutations from Catalan to Fine and back. (English summary) **2005d:05008**
Roichman, Yuval *see* **Regev, Amitai**, **2005h:05002**
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Sagan, Bruce E. *see* **Hildebrand, Martin et al.**, **2005e:05002**
Schultz, Michelle (*with* Watson, Michael) From equi-graphical sets to graphical permutations. (English summary) **2005b:05011**
Schumer, Peter The Josephus problem: once more around.
Scully, Daniel Perfect shuffles through dynamical systems. **2005g:05008**
Smith, Rebecca Nicole Comparing algorithms for sorting with t stacks in series. (English summary) **2005c:05007**
Stamp, Austin E. *see* **Stamp, Mark**
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Stankova-Frenkel, Zvezdelina E. (*with* West, Julian) Explicit enumeration of 321, hexagon-avoiding permutations. (English summary) **2005b:05012**
(Stanley, Richard P.) *see* **Bóna, Miklós**, **2005f:05001**
Stolarski, Daniel *see* **Carlson, Jordan**, **2005d:05005**
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05A18 Partitions of sets

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05A19 Combinatorial identities

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05A20 Combinatorial inequalities

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05Bxx Designs and configurations {For applications of design theory, see 94C30.}

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05B15 Orthogonal arrays, Latin squares, Room squares

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05B35 Matroids, geometric lattices [see also 52B40, 90C27]

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05B40 Packing and covering [see also 11H31, 52C15, 52C17]

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05C62 Graph representations (geometric and intersection representations, etc.)

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Barequet, Gill (*with* Goodrich, Michael T.; Riley, Chris) Drawing graphs with large vertices and thick edges. (English summary) **2005c:68216**
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05D05 Extremal set theory

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Rimányi, Richárd *see* Buch, Anders Skovsted, 2005b:14096
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05E20 Group actions on designs, geometries and codes

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05E25 Group actions on posets and homology groups of posets [see also 06A11]

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05E30 Association schemes, strongly regular graphs

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05E99 None of the above, but in this section

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06–XX Order, lattices, ordered algebraic structures [see also 18B35]

06–01 Instructional exposition (textbooks, tutorial papers, etc.)

(Martínez, Jorge²) *see* **Ordered algebraic structures, 2005b:06001**

Items listed otherwise than by author

Gainesville, FL ★ Ordered algebraic structures. **2005b:06001**
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06–02 Research exposition (monographs, survey articles)

Dohmen, Klaus ★ Improved Bonferroni inequalities via abstract tubes. **2005f:06001**

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Items with secondary classifications in 06 -02

Ghilardi, Silvio (*with* Zawadowski, Marek) ★ Sheaves, games, and model completions. **2005a:03002**
Zawadowski, Marek *see* **Ghilardi, Silvio, 2005a:03002**

06–03 Historical (must also be assigned at least one classification number from Section 01)

Bilová, Štěpánka Lattice theory in Czech and Slovak mathematics until 1963. (*see* **2005j:01002**)

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06–06 Proceedings, conferences, collections, etc.

Ganter, Bernhard (*with* Stumme, Gerd; Wille, Rudolf) Formal concept analysis: theory and applications.
Stumme, Gerd *see* **Ganter, Bernhard et al.**
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(Denecke, Klaus) *see* **Galois connections and applications, 2005a:00013**
(Eigenthaler, Günther) *see* **Contributions to general algebra. 15, 2005b:00023**
(Erné, Marcel) *see* **Galois connections and applications, 2005a:00013**
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(Rival, Ivan) *see* **Quackenbush, Robert W.**
(Schoissengeier, Johannes) *see* **Contributions to general algebra. 15, 2005b:00023**
(Shum, Kar Ping) *see* **Ordered structures and algebra of computer languages, 2005g:20001**
(Wismath, S. L.) *see* **Galois connections and applications, 2005a:00013**
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Klagenfurt ★ Contributions to general algebra. 15. **2005b:00023**
Obituary:
Rival, Ivan *see* **Quackenbush, Robert W.**
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06Axx Ordered sets

06A05 Total order

Campero-Arena, G. (*with* Truss, J. K.) Countable 1-transitive coloured linear orderings. II. (English summary) **2005m:06001**
Giarlotta, Alfio Representable lexicographic products. (English summary) **2005k:06001**
— The representability number of a chain. (English summary) **2005m:06002**
Truss, J. K. *see* **Campero-Arena, G., 2005m:06001**

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Grabisch, Michel The Möbius transform on symmetric ordered structures and its application to capacities on finite sets. (English summary) **2005g:06002**
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Lahiri, Somdeb An axiomatic characterization of linear orders. (English summary)
Nešetřil, Jaroslav Ramsey classes and homogeneous structures. (English summary) **2005m:05225**
Pallack, Andreas *see* **Herden, Gerhard, 2005j:54021**
Schmerl, James H. Automorphism groups of models of Peano arithmetic. **2005b:03090**

06A06 Partial order, general

Aschenbrenner, Matthias (*with* Pong, Wai Yan) Orderings of monomial ideals. (English summary) **2005f:06002**
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— *see also* **Waphare, B. N., 2005k:06005**
Laison, Joshua D. Free triangle orders. (English summary) **2005d:06001**
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Ng, Siaw-Lynn A characterisation of posets that are nearly antichains. (English summary) **2005k:06002**
Ngo The, An (*with* Tsoukiàs, Alexis) Numerical representation of *PQI* interval orders. (English summary) **2005k:06003**
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06A11 Algebraic aspects of posets [see also 05E25]

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06Cxx Modular lattices, complemented lattices

06C05 Modular lattices, Desarguesian lattices

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06Dxx Distributive lattices

06D05 Structure and representation theory

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06D10 Complete distributivity

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06D15 Pseudocomplemented lattices

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06D20 Heyting algebras [see also 03G25]

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06D35 MV-algebras

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06D50 Lattices and duality

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06D72 Fuzzy lattices (soft algebras) and related topics

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06D99 None of the above, but in this section

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06Fxx Ordered structures

06F05 Ordered semigroups and monoids [see also 20Mxx]

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06F15 Ordered groups [see also 20F60]

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08Axx Algebraic structures [see also 03C05]

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08A05 Structure theory

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08A30 Subalgebras, congruence relations

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08A35 Automorphisms, endomorphisms

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08A40 Operations, polynomials, primal algebras

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08A55 Partial algebras

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08A60 Unary algebras

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08A62 Finitary algebras

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08A68 Heterogeneous algebras

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08A70 Applications of universal algebra in computer science

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08C05 Categories of algebras [see also 18C05]

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Moree, Pieter On the average number of elements in a finite field with order or index in a prescribed residue class. (English summary) **2005f:11219**
Müller, Thomas W. (*with* Schlage-Puchta, Jan-Christoph) On the number of primitive λ-roots. **2005g:11189**
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11A15 Power residues, reciprocity

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11A25 Arithmetic functions; related numbers; inversion formulas

Åhlander, Bo *see* **Ufnarovskiĭ, V. A., 2005b:11007**
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Galambos, Janos (*with* Simonelli, Italo) Once more about Wirsing's theorem on multiplicative functions: a simple probabilistic proof. (English summary) **2005f:11005**
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Ghusayni, Badih A collection of number and function characterizations. (English summary)
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11A41 Primes

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Escribano Benito, José Javier *see* **Benito Muñoz, Manuel, 2005c:11010**
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Tinaglia, Calogero On a geometric characterization of rational prime integers. (English and Italian summaries) **2005i:11008**
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11A51 Factorization; primality

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Dietzfelbinger, Martin ★ Primality testing in polynomial time. **2005m:11235**
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11A55 Continued fractions {For approximation results, see 11J70.} [see also 11K50, 30B70, 40A15]

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Andrews, George E. (*with* Berndt, Bruce C.; Sohn, Jaebum; Yee, Ae Ja; Zaharescu, Alexandru) Continued fractions with three limit points. (English summary) **2005m:11008**
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Bernat, Julien Continued fractions and numeration in Fibonacci basis. (English summary) (*see* **2005c:68010**)
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11A63 Radix representation; digital problems {For metric results, see 11K16.}

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11B05 Density, gaps, topology

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11B13 Additive bases [see also 05B10]

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11B25 Arithmetic progressions [see also 11N13]

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11B83 Special sequences and polynomials

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11B85 Automata sequences

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11B99 None of the above, but in this section

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11Cxx Polynomials and matrices

11C08 Polynomials [see also 13F20]

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11C20 Matrices, determinants [see also 15A36]

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Corvaja, Pietro (*with* Rudnick, Zéev; Zannier, Umberto M.) A lower bound for periods of matrices. (English summary) **2005g:11035**
Haukkanen, Pentti On the l_p norm of GCD and related matrices. (English summary) **2005g:11036**
Hong, Shao Fang (*with* Loewy, Raphael) Asymptotic behavior of eigenvalues of greatest common divisor matrices. (English summary) **2005f:11040**
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— Nonsingularity of least common multiple matrices on gcd-closed sets. (English summary)
— *see also* **Zhou, Xing Wang²**, **2005m:11041**
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11Dxx Diophantine equations [see also 11Gxx, 14Gxx]

Items with secondary classifications in 11Dxx

Waldschmidt, Michel Open Diophantine problems. (English and Russian summaries) **2005e:11092**

Items listed otherwise than by author

Problems:
Diophantine *see* **Waldschmidt, Michel**, **2005e:11092**

11D04 Linear equations

Beck, Matthias (*with* Robins, Sinai) A formula related to the Frobenius problem in two dimensions. **2005d:11037**
— (*with* Zacks, Shelemyahu) Refined upper bounds for the linear Diophantine problem of Frobenius. (English summary) **2005d:11038**
Chaładus, S. On a linear Diophantine equation. II. **2005d:11039**
Dokchitser, Tim LLL & ABC. (English summary) **2005d:11040**
Luca, Florian (*with* Szalay, László) Linear Diophantine equation with three consecutive binomial coefficients. (English summary) **2005k:11056**
Owens, Robert W. An algorithm to solve the Frobenius problem. **2005f:11043**
Robins, Sinai *see* **Beck, Matthias**, **2005d:11037**
Schlage-Puchta, Jan-Christoph An estimate for Frobenius' Diophantine problem in three dimensions. (English summary) **2005i:11031**
Szalay, László *see* **Luca, Florian**, **2005k:11056**
Zacks, Shelemyahu *see* **Beck, Matthias**, **2005d:11038**

Items with secondary classifications in 11D04

Dang, Zhe *see* **Xie, Gaoyan et al.**, **2005h:68051**
García-Sánchez, Pedro A. *see* **Rosales, José C.**, **2005i:20093**
Jones, Scott O'Neil (*with* Schaal, Daniel) Two-color Rado numbers for $x + y + c = kz$. (English summary) **2005g:05149**
Li, Cheng *see* **Xie, Gaoyan et al.**, **2005h:68051**
Liebendörfer, Christine Linear equations and heights over division algebras. (English summary) **2005b:11092**
Masser, D. W. Mixing and linear equations over groups in positive characteristic. (English summary) **2005e:37011**
Pisón Casares, Pilar (*with* Vigneron-Tenorio, Alberto) $\mathbb{N}$-solutions to linear systems over $\mathbb{Z}$. (English summary) **2005i:13039**
Rosales, José C. (*with* García-Sánchez, Pedro A.) Numerical semigroups with embedding dimension three. (English summary) **2005i:20093**
Schaal, Daniel *see* **Jones, Scott O'Neil**, **2005g:05149**
Vigneron-Tenorio, Alberto *see* **Pisón Casares, Pilar**, **2005i:13039**
Xie, Gaoyan (*with* Li, Cheng; Dang, Zhe) Linear reachability problems and minimal solutions to linear Diophantine equation systems. (English summary) **2005h:68051**
Yang, Shi Chun Accurate and simple formulas of $A(n, 6)$ and $A(n, 7)$. (Chinese. English and Chinese summaries) **2005c:11037**

11D09 Quadratic and bilinear equations

Al-Rashed, Amal *see* **Muriefah, Fadwa S. Abu**, **2005d:11041**
Basilla, Julius Magalona On the solution of $x^2 + dy^2 = m$. (English summary) **2005c:11031**
Choudhry, Ajai *see* **Nwabueze, Kenneth K. et al.**
Chu, Wenchang (*with* Magli, Pierluigi) Polygonal numbers and Diophantine equations. (Italian. English and Italian summaries) **2005a:11030**
Devibala, S. *see* **Gopalan, M. A.**
Dujella, Andrej (*with* Fuchs, Clemens) Complete solution of the polynomial version of a problem of Diophantus. (English summary) **2005c:11032**
— (*with* Fuchs, Clemens) Complete solution of a problem of Diophantus and Euler. (English summary) **2005g:11038**
Franušić, Zrinka Diophantine quadruples in the ring $\mathbb{Z}[\sqrt{2}]$. (English summary) **2005k:11057**
Fuchs, Clemens *see* **Dujella, Andrej**, **2005c:11032** *and* **2005g:11038**
Gopalan, M. A. (*with* Srikanth, Raghavendran) On a binary quadratic Diophantine equation $Y^2 = DX^2 + N$. (English summary)
— (*with* Devibala, S.) A method of obtaining Pythagorean triangles. (English summary)
Hürlimann, Werner The primitive cuboids with natural edges and diagonals according to Catalan and Sierpinski. (English summary) **2005c:11033**
İşcan, Hülya *see* **Pekin, Ayten**, **2005e:11033**
Kihel, Omar *see* **Nwabueze, Kenneth K. et al.**
Kimura, Noriaki (*with* Williams, Kenneth S.) Infinitely many insolvable Diophantine equations. **2005g:11039**
Magli, Pierluigi *see* **Chu, Wenchang**, **2005a:11030**
Malakhovskiĭ, V. S. Diophantine families of Pythagorean triangles. (Russian. English and Russian summaries)
— On some properties of base sequences of Pythagorean triangles. (Russian. English and Russian summaries)
— On discrete families of integer isosceles triangles. (Russian. English and Russian summaries)
Marlewski, A. (*with* Zarzycki, P.) Infinitely many positive solutions of the Diophantine equation $x^2 - kxy + y^2 + x = 0$. (English summary) **2005b:11030**
McCullough, Darryl Height and excess of Pythagorean triples.
Mollin, Richard A. A continued fraction approach to the Diophantine equation $ax^2 - by^2 = \pm 1$. (English summary) **2005a:11031**
— Infinitely many quadratic Diophantine equations solvable everywhere locally, but not solvable globally. (English summary) **2005g:11040**
— Eisenstein equations and central norms. (English summary) **2005m:11042**
Muriefah, Fadwa S. Abu (*with* Al-Rashed, Amal) Some Diophantine quadruples in the ring $\mathbf{Z}[\sqrt{-2}]$. (English summary) **2005d:11041**
Nwabueze, Kenneth K. (*with* Kihel, Omar; Choudhry, Ajai) Defining a group operation on the set of solutions of a parametrised quadratic Diophantine equation. (English summary)
Pekin, Ayten (*with* İşcan, Hülya) On the solvability of the equation $x^2 - py^2 = \mp q$ and the class number of $\mathbf{Q}(\sqrt{p})$ for the $p = [(2n+1)q]^2 \mp 1^*$. (English summary) **2005e:11033**
Ribenboim, Paulo Solving parametrized systems of Pell equations. **2005m:11043**
Srikanth, Raghavendran *see* **Gopalan, M. A.**
Webb, William A. (*with* Yokota, Hisashi) Polynomial Pell's equation. II. (English summary) **2005a:11032**
Williams, Kenneth S. *see* **Kimura, Noriaki**, **2005g:11039**
Yang, Shi Chun Some non-uncommon cases of the Diophantine equation $x^2 - D = 2^n$. (Chinese. English and Chinese summaries)
Yokota, Hisashi *see* **Webb, William A.**, **2005a:11032**
Zarzycki, P. *see* **Marlewski, A.**, **2005b:11030**

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Brancheva, Maria Estimations and asymptotic formulae related with some simplest Diophantine figures. **2005a:11148**
Budarina, N. V. On prime values of some polynomials. (English and Lithuanian summaries) **2005k:11063**
— Deformations of Diophantine systems for quadratic forms of the root lattices A_n. (Russian. Russian summary) **2005k:11075**
Choudhry, Ajai (*with* Nwabueze, Kenneth K.) An example of a group. (English summary)
Dang, Zhe *see* **Ibarra, Oscar H.**, **2005a:68120**

Dorfer, Gerhard (*with* Tichy, Robert F.) Quadratic algebraic numbers with finite b-adic expansion on the unit circle and their distribution. (English summary) **2005g:11047**
Ibarra, Oscar H. (*with* Dang, Zhe) On two-way FA with monotonic counters and quadratic Diophantine equations. (English summary) **2005a:68120**
Jones, James P. Representation of solutions of Pell equations using Lucas sequences. (English summary) **2005b:11015**
Li, Huang² Notes on seven Diophantine equations $x^2+ky^2=z^3$, $Y^2=X^3+K$, $x^2=Dy^2=\pm1$, $x^2+ky^2=z^n$, $x^2+ky^2=z^2$, $Y^2=X^3-2$, $x^p+y^p=x^p$. (Chinese. English and Chinese summaries) **2005d:11042**
Luca, Florian (*with* Szalay, László) Linear Diophantine equation with three consecutive binomial coefficients. (English summary) **2005k:11056**
Mollin, Richard A. Necessary and sufficient conditions for the central norm to equal 2^h in the simple continued fraction expansion of $\sqrt{2^h c}$ for any odd $c>1$. (English summary) **2005i:11013**
Muller, Jean-Michel (*with* Nicolas, Jean-Louis; Roblot, Xavier-François) Nombre de solutions dans une binade de l'équation $A^2+B^2=C^2+C$. (English summary) [Number of solutions in a dyadic interval of the equation $A^2+B^2=C^2+C$] **2005f:11046**
Nicolas, Jean-Louis *see* **Muller, Jean-Michel et al., 2005f:11046**
Nwabueze, Kenneth K. *see* **Choudhry, Ajai**
Rippon, Philip J. (*with* Taylor, H.) Even and odd periods in continued fractions of square roots. **2005h:11017**
Roblot, Xavier-François *see* **Muller, Jean-Michel et al., 2005f:11046**
Shabat, G. B. Imaginary-quadratic solutions of anti-Vandermonde systems with four unknowns, and the Galois orbits of trees of diameter four. (Russian. English and Russian summaries) **2005g:11041**
Širola, B. Class number one quadratic fields and solvability of some Pellian equations. (English summary) **2005f:11239**
Szalay, László *see* **Luca, Florian, 2005k:11056**
Taylor, H. *see* **Rippon, Philip J., 2005h:11017**
Tichy, Robert F. *see* **Dorfer, Gerhard, 2005g:11047**

11D25 Cubic and quartic equations

Beauregard, Raymond A. (*with* Zelator, Konstantine Dabmian) On a three-dimensional generalization of Fermat's area theorem.
Bode, Jens-P. (*with* Harborth, Heiko) Positive integers $(a^2+b^2)/(ab+1)$ are squares. (*see* **2005b:11001**)
Chen, Wei Hong *see* **Deng, Mou Jie et al.**
Chisholm, C. (*with* MacDougall, J. A.) Rational tetrahedra with edges in arithmetic progression. (English summary) **2005k:11058**
Choudhry, Ajai The complete solution of a Diophantine equation involving biquadrates. (English summary) **2005m:11044**
— A Diophantine problem concerning cubes. (English summary) **2005i:11032**
Deng, Mou Jie (*with* Guo, Wei Yan; Tong, Sheng Lin; Chen, Wei Hong) The Diophantine equation $X^3\pm1=DY^2$. (Chinese. English and Chinese summaries)
Devibala, S. *see* **Gopalan, M. A.**
Dou, Xiao Xia (*with* Hua, Bao Jun; Yuan, Jin[1]) Solutions of an indefinite equation. (Chinese. English and Chinese summaries)
Dujella, Andrej Bounds for the size of sets with the property $D(n)$. (English summary) **2005h:11063**
Gopalan, M. A. (*with* Devibala, S.) Polynomial solutions for the Diophantine equation $Y^2=(\lambda^2b^2+2\lambda a-1)X^2+(-1)^k(\lambda^2b^2+2\lambda a-2)^k(a^2+b^2)$. (English summary)
Guo, Wei Yan *see* **Deng, Mou Jie et al.**
Harborth, Heiko *see* **Bode, Jens-P., (2005b:11001)**
Herrmann, Emanuel (*with* Walsh, P. Gary) Values of ternary recurrence sequences and torsion on certain curves arising from the work of Hugh Williams. **2005f:11044**
Hua, Bao Jun *see* **Dou, Xiao Xia et al.**
Kihel, Omar (*with* Levesque, Claude) On the Diophantine equation $X^4-DY^4=\pm Z^2$ and its associated elliptic curve $V^2=U^3-DU$. (English summary)
Le, Mao Hua On the Diophantine system $x^2-Dy^2=1-D$ and $x=2z^2-1$. (English summary) **2005h:11064**
Levesque, Claude *see* **Kihel, Omar**
Li, Huang² Notes on seven Diophantine equations $x^2+ky^2=z^3$, $Y^2=X^3+K$, $x^2=Dy^2=\pm1$, $x^2+ky^2=z^n$, $x^2+ky^2=z^2$, $Y^2=X^3-2$, $x^p+y^p=x^p$. (Chinese. English and Chinese summaries) **2005d:11042**
MacDougall, J. A. *see* **Chisholm, C., 2005k:11058**
MacLeod, Allan J. A solution to an "unsolved problem in number theory". (English summary) **2005a:11033**
Poulakis, Dimitrios (*with* Walsh, P. Gary) A note on the Diophantine equation $X^2-dY^4=1$ with prime discriminant. (English and French summaries) **2005m:11045**
Savin, Diana On some Diophantine equations. I. (English summary) **2005h:11065**
Shabat, G. B. Imaginary-quadratic solutions of anti-Vandermonde systems with four unknowns, and the Galois orbits of trees of diameter four. (Russian. English and Russian summaries) **2005g:11041**
Szabó, Sándor The Diophantine equation $x^4-y^4=z^2$ in three quadratic fields. (English summary) **2005i:11033**
— Some fourth degree Diophantine equations in Gaussian integers. (English summary) **2005i:11034**
Szalay, László A note on binomial coefficients and equations of Pythagorean type. (English summary) **2005c:11034**
Tong, Sheng Lin *see* **Deng, Mou Jie et al.**
Walsh, P. Gary *see* **Herrmann, Emanuel, 2005f:11044** *and* **Poulakis, Dimitrios, 2005m:11045**
Ye, Yan Qian On linear relations between elements in $N_3[1^3,2^3,3^3,\dots]$. (English and Chinese summaries)
Yuan, Jin[1] *see* **Dou, Xiao Xia et al.**
Yuan, Ping Zhi Simultaneous Pell equations. **2005i:11035**
Zelator, Konstantine Dabmian *see* **Beauregard, Raymond A.**

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Broughan, Kevin A. Characterizing the sum of two cubes. (English summary) **2005b:11038**
Campbell, Garikai Points on $y=x^2$ at rational distance. (English summary) **2005h:11110**
Choudhry, Ajai Symmetric Diophantine equations. (English summary) **2005i:11037**
Dujella, Andrej (*with* Fuchs, Clemens) Complete solution of the polynomial version of a problem of Diophantus. (English summary) **2005c:11032**
Fuchs, Clemens *see* **Dujella, Andrej, 2005c:11032**
Gaál, István (*with* Járási, István; Luca, Florian) A remark on prime divisors of lengths of sides of Heron triangles. (English summary) **2005a:11037**
Hernández, Santos (*with* Luca, Florian) Divisibility of exponents of class groups of pure cubic number fields. (English summary) **2005e:11145**
Hu, Yongzhong *see* **Yuan, Ping Zhi, 2005j:11024**
Járási, István *see* **Gaál, István et al., 2005a:11037**
Luca, Florian *see* **Gaál, István et al., 2005a:11037** *and* **Hernández, Santos, 2005e:11145**
MacLeod, Allan J. A note on the curve $Y^2=(X+p)(X^2+p^2)$. (English summary) **2005a:11082**
Ribenboim, Paulo FFF: (favorite Fibonacci flowers). (English summary) **2005k:11025**
Tengely, Sz. On the Diophantine equation $x^2+a^2=2y^p$. **2005f:11045**
Walsh, P. Gary Diophantine applications of Bennett's *abc* theorem. (English summary) **2005h:11068**
Yuan, Ping Zhi (*with* Hu, Yongzhong) On the Diophantine equation $x^2+D^m=p^n$. (English summary) **2005j:11024**

11D41 Higher degree equations; Fermat's equation

Bennett, Curtis D. (*with* Glass, Andrew M. W.; Székely, Gábor J.) Fermat's last theorem for rational exponents. **2005b:11031**
Bennett, Michael A. Products of consecutive integers. (English summary) **2005e:11034**
— (*with* Skinner, Chris M.) Ternary Diophantine equations via Galois representations and modular forms. (English summary) **2005c:11035**
— (*with* Vatsal, Vinayak; Yazdani, Soroosh) Ternary Diophantine equations of signature $(p,p,3)$. (English summary) **2005i:11036**
— (*with* Győry, Kálmán; Pintér, Ákos) On the Diophantine equation $1^k+2^k+\cdots+x^k=y^n$. (English summary) **2005g:11042**
— Powers in recurrence sequences: Pell equations. (English summary) **2005h:11066**
Choudhry, Ajai Symmetric Diophantine equations. (English summary) **2005i:11037**
Darmon, Henri A fourteenth lecture on Fermat's last theorem. **2005g:11043**
Dieulefait, Luis V. Solving Diophantine equations $x^4+y^4=qz^p$. **2005k:11059**
Edwards, Johnny A complete solution to $X^2+Y^3+Z^5=0$. (English summary) **2005e:11035**
Glass, Andrew M. W. *see* **Bennett, Curtis D. et al., 2005b:11031**
Grünes, Susanne Gleichungen $au_h^k+bu_n^l+cu_q^m=0$ in linearen rekurrenten Folgen $\langle u_n\rangle$. I. (English summary) [Equations $au_h^k+bu_n^l+cu_q^m=0$ in linear recurrence sequences. I] **2005m:11046a**
— Gleichungen $au_h^k+bu_n^l+cu_q^m=0$ in linearen rekurrenten Folgen $\langle u_n\rangle$. II. [Equations $au_h^k+bu_n^l+cu_q^m=0$ in linear recurrence sequences. II] **2005m:11046b**
— Gleichungen $au_h^k+bu_n^l+cu_q^m=0$ in linearen rekurrenten Folgen $\langle u_n\rangle$. III. [Equations $au_h^k+bu_n^l+cu_q^m=0$ in linear recurrence sequences. III] **2005m:11046c**
Győry, Kálmán (*with* Pintér, Ákos) On the equation $1^k+2^k+\cdots+x^k=y^n$. (English summary) **2005a:11034**
— (*with* Hajdu, Lajos; Saradha, N.) On the Diophantine equation $n(n+d)\cdots(n+(k-1)d)=by^l$. (English summary) **2005e:11036**
— *see also* **Bennett, Michael A. et al., 2005g:11042**
Hajdu, Lajos Perfect powers in arithmetic progression. A note on the inhomogeneous case. **2005g:11044**
— *see also* **Győry, Kálmán et al., 2005e:11036**
Hirschhorn, Michael D. Ramanujan and Fermat's last theorem.
Jarvis, Frazer (*with* Meekin, Paul) The Fermat equation over $\mathbb{Q}(\sqrt{2})$. (English summary) **2005g:11045**
Karmakar, Sudhangshu B. On a pair of Dipohantine equations. (English summary) **2005b:11032**
Kulkarni, Manisha V. (*with* Sury, B.) On the Diophantine equation $x(x+1)(x+2)\dots(x+(m-1))=g(y)$. (English summary) **2005b:11033**
— (*with* Sury, B.) Diophantine equations with Bernoulli polynomials. **2005i:11038**
— (*with* Sury, B.) A class of Diophantine equations involving Bernoulli polynomials. **2005m:11047**
Lakhal, M. (*with* Sander, Jürgen W.) Rational points on the superelliptic Erdős-Selfridge curve of fifth degree. **2005m:11048**
Langmann, Klaus Unlösbarkeit der Gleichung $\alpha x^n+\beta y^n=z^n$ und Gleichverteilung von $\sqrt[n]{\alpha x^n+\beta y^n}$. (English summary) [Unsolvability of the equation $\alpha x^n+\beta y^n=z^n$ and uniform distribution of $\sqrt[n]{\alpha x^n+\beta y^n}$] **2005k:11060**
Meekin, Paul *see* **Jarvis, Frazer, 2005g:11045**
Mochimaru, Yoshihiro New way for a two-parameter canonical form of sextic equations and its solvable cases. (English summary)
Mollin, Richard A. A note on the Diophantine equation $D_1x^2+D_2=ak^n$. (English summary) **2005k:11061**
Pintér, Ákos *see* **Győry, Kálmán, 2005a:11034** *and* **Bennett, Michael A. et al., 2005g:11042**
Rakaczki, Csaba On the Diophantine equation $F\binom{x}{n}=b\binom{y}{m}$. (English summary) **2005g:11046**
— On the Diophantine equation $S_m(x)=g(y)$. (English summary) **2005h:11067**
Sander, Jürgen W. *see* **Lakhal, M., 2005m:11048**
Saradha, N. *see* **Győry, Kálmán et al., 2005e:11036**
Siksek, Samir On the Diophantine equation $x^2=y^p+2^kz^p$. (English and French summaries) **2005m:11049**
Skinner, Chris M. *see* **Bennett, Michael A., 2005c:11035**
Sury, B. *see* **Kulkarni, Manisha V., 2005b:11033; 2005i:11038** *and* **2005m:11047**
Székely, Gábor J. *see* **Bennett, Curtis D. et al., 2005b:11031**
Tengely, Sz. On the Diophantine equation $x^2+a^2=2y^p$. **2005f:11045**
Vatsal, Vinayak *see* **Bennett, Michael A. et al., 2005i:11036**
Walsh, P. Gary Diophantine applications of Bennett's *abc* theorem. (English summary) **2005h:11068**

Yazdani, Soroosh *see* **Bennett, Michael A. et al., 2005i:11036**

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Browning, T. D. (*with* Heath-Brown, D. R.) Equal sums of three powers. **2005h:11227**

Chisholm, C. (*with* MacDougall, J. A.) Rational tetrahedra with edges in arithmetic progression. (English summary) **2005k:11058**

Ellenberg, Jordan S. Galois representations attached to $\mathbb{Q}$-curves and the generalized Fermat equation $A^4 + B^2 = C^p$. (English summary) **2005g:11089**

Halberstadt, Emmanuel (*with* Kraus, Alain) Une conjecture de Lebesgue. (English summary) [A conjecture of Lebesgue] **2005e:11080**

Heath-Brown, D. R. *see* **Browning, T. D., 2005h:11227**

Kraus, Alain *see* **Halberstadt, Emmanuel, 2005e:11080**

Li, Huang[2] Notes on seven Diophantine equations $x^2 + ky^2 = z^3$, $Y^2 = X^3 + K$, $x^2 = Dy^2 = \pm 1$, $x^2 + ky^2 = z^n$, $x^2 + ky^2 = z^2$, $Y^2 = X^3 - 2$, $x^p + y^p = x^p$. (Chinese. English and Chinese summaries) **2005d:11042**

MacDougall, J. A. *see* **Chisholm, C., 2005k:11058**

McCallum, William G. (*with* Tzermias, Pavlos) On Shafarevich-Tate groups and the arithmetic of Fermat curves. **2005d:11082**

Poulakis, Dimitrios Integer points on rational curves with fixed gcd. (English summary) **2005a:11091**

Ribenboim, Paulo Fermat's equation for matrices or quaternions over q-adic fields. **2005d:11049**

Saradha, N. (*with* Shorey, T. N.) Contributions towards a conjecture of Erdős on perfect powers in arithmetic progression. (English summary) **2005k:11068**

Shorey, T. N. *see* **Saradha, N., 2005k:11068**

Tzermias, Pavlos *see* **McCallum, William G., 2005d:11082**

11D45 Counting solutions of Diophantine equations

Baragar, Arthur (*with* Umeda, Kensaku) The asymptotic growth of integer solutions to the Rosenberger equations. (English summary) **2005e:11037**

Baulina, Yu. N. On the number of solutions of the equation $a_1 x_1^{m_1} + \cdots + a_n x_n^{m_n} = bx_1 \cdots x_n$ in a finite field. (English summary) **2005k:11062**

Budarina, N. V. On prime values of some polynomials. (English and Lithuanian summaries) **2005k:11063**

Dorfer, Gerhard (*with* Tichy, Robert F.) Quadratic algebraic numbers with finite b-adic expansion on the unit circle and their distribution. (English summary) **2005g:11047**

Fuchs, Clemens Polynomial-exponential equations and linear recurrences. (English summary) **2005a:11035**

— On the Diophantine equation $G_n(x) = G_m(P(x))$ for third order linear recurring sequences. (English summary) **2005a:11036**

Gyarmati, Katalin (*with* Sárközy, András; Stewart, C. L.) On shifted products which are powers. **2005c:11036**

— A polynomial extension of a problem of Diophantus. (English summary) **2005m:11050**

Huang, Xin Yang *see* **Wu, Hong Ru et al., 2005i:11039**

Lin, Da Zheng *see* **Wu, Hong Ru et al., 2005i:11039**

Liu, Shuang Gen *see* **Wu, Hong Ru et al., 2005i:11039**

Marcovecchio, Raffaele Polynomial-exponential determinants. (Italian. English and Italian summaries) **2005k:11064**

Muller, Jean-Michel (*with* Nicolas, Jean-Louis; Roblot, Xavier-François) Nombre de solutions dans une binade de l'équation $A^2 + B^2 = C^2 + C$. (English summary) [Number of solutions in a dyadic interval of the equation $A^2 + B^2 = C^2 + C$] **2005f:11046**

Nicolas, Jean-Louis *see* **Muller, Jean-Michel et al., 2005f:11046**

Roblot, Xavier-François *see* **Muller, Jean-Michel et al., 2005f:11046**

Sárközy, András *see* **Gyarmati, Katalin et al., 2005c:11036**

Stewart, C. L. *see* **Gyarmati, Katalin et al., 2005c:11036**

Stoll, Thomas Diophantine equations for orthogonal polynomials. (English summary) **2005k:11065**

— (*with* Tichy, Robert F.) Diophantine equations involving general Meixner and Krawtchouk polynomials. (English summary) **2005m:11051**

Tichy, Robert F. *see* **Dorfer, Gerhard, 2005g:11047** *and* **Stoll, Thomas, 2005m:11051**

Umeda, Kensaku *see* **Baragar, Arthur, 2005e:11037**

Wu, Hong Ru (*with* Lin, Da Zheng; Huang, Xin Yang; Liu, Shuang Gen) The general form of an accurate formula for $A(n, k)$. (Chinese. English and Chinese summaries) **2005i:11039**

Yang, Shi Chun Accurate and simple formulas of $A(n, 6)$ and $A(n, 7)$. (Chinese. English and Chinese summaries) **2005c:11037**

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Beck, Matthias (*with* Robins, Sinai) A formula related to the Frobenius problem in two dimensions. **2005d:11037**

Belozorov, G. (*with* Varbanets, P. D.) Diophantine equations with quadratic forms. **2005h:11080**

Bennett, Michael A. Powers in recurrence sequences: Pell equations. (English summary) **2005h:11066**

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11D57 Multiplicative and norm form equations

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11D68 Rational numbers as sums of fractions

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11D72 Equations in many variables [see also 11P55]

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11D75 Diophantine inequalities [see also 11J25]

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11D79 Congruences in many variables

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11D85 Representation problems [see also 11P55]

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11D88 p-adic and power series fields

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11D99 None of the above, but in this section

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11Exx Forms and linear algebraic groups {For quadratic forms in linear algebra, see 15A63.}

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11E20 General ternary and quaternary quadratic forms; forms of more than two variables

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11E39 Bilinear and Hermitian forms

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11E45 Analytic theory (Epstein zeta functions; relations with automorphic forms and functions)

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11E70 K-theory of quadratic and Hermitian forms

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11E76 Forms of degree higher than two

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11E81 Algebraic theory of quadratic forms; Witt groups and rings [see also 19G12, 19G24]

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11E95 p-adic theory

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11Fxx Discontinuous groups and automorphic forms {For relations with quadratic forms, see 11E45.}

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11F03 Modular and automorphic functions

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11F06 Structure of modular groups and generalizations; arithmetic groups [see also 20H05, 20H10, 22E40]

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11F11 Modular forms, one variable

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Kowalski, Emmanuel Variants of recognition problems for modular forms. (English summary) **2005h:11085**
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11F12 Automorphic forms, one variable

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Jorgenson, Jay (*with* Kramer, Jürg) Bounding the sup-norm of automorphic forms. **2005m:11071**
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Then, Holger Maass cusp forms for large eigenvalues. (English summary) **2005h:11106**

11F20 Dedekind eta function, Dedekind sums

Acikgoz, Mehmet *see* **Simsek, Yilmaz**
Beck, Matthias Dedekind cotangent sums. **2005g:11061**
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Can, Mümün Some arithmetic on the Hardy sums $s_2(h,k)$ and $s_3(h,k)$. (English summary) **2005g:11062**
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11F27 Theta series; Weil representation

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11F30 Fourier coefficients of automorphic forms

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11F32 Modular correspondences, etc.

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Khare, Chandrashekhar Belyi parametrisations of elliptic curves and congruence defects. (English summary) **2005d:11080**

Miyazaki, Takuya On Saito-Kurokawa lifting to cohomological Siegel modular forms. (English summary) **2005c:11057**

11F33 Congruences for modular and p-adic modular forms [see also 14G20, 22E50]

Boylan, Matthew Exceptional congruences for powers of the partition function. **2005c:11054**

Bruinier, Jan Hendrik (*with* Ono, Ken) The arithmetic of Borcherds' exponents. **2005b:11055**

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Bruinier, Jan Hendrik (*with* Kohnen, Winfried; Ono, Ken) The arithmetic of the values of modular functions and the divisors of modular forms. (English summary) **2005h:11083**

Buzzard, Kevin (*with* Calegari, Frank) Slopes of overconvergent 2-adic modular forms. (English summary) **2005k:11106**

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Kilford, L. J. P. *see* **Buzzard, Kevin**, **2005m:11101**

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11F37 Forms of half-integer weight; nonholomorphic modular forms

Ahlgren, Scott (*with* Boylan, Matthew) Coefficients of half-integral weight modular forms modulo l^j. (English summary) **2005k:11091**

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Cooper, Shaun Sums of five, seven and nine squares. (English summary) **2005k:11093**

Duke, William Rational points on the sphere. (English summary) **2005h:11094**

Kojima, Hisashi On the Fourier coefficients of Hilbert-Maass wave forms of half integral weight over arbitrary algebraic number fields. (English summary) **2005c:11055**

— (*with* Tokuno, Yasushi) On the Fourier coefficients of modular forms of half integral weight belonging to Kohnen's spaces and the critical values of zeta functions. (English summary) **2005b:11056**

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Tokuno, Yasushi *see* **Kojima, Hisashi**, **2005b:11056**

Ueda, Masaru Trace identities of twisted Hecke operators on the spaces of cusp forms of half-integral weight. (English summary) **2005h:11095**

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Goldfeld, Dorian M. (*with* O'Sullivan, Cormac) Estimating additive character sums for Fuchsian groups. (English summary) **2005c:11060**

Hayashida, Shuichi Skew-holomorphic Jacobi forms of index 1 and Siegel modular forms of half-integral weight. (English summary) **2005i:11066**

Kudla, Stephen S. Modular forms and arithmetic geometry. **2005d:11086**

— Special cycles and derivatives of Eisenstein series. **2005g:11108**

— (*with* Rapoport, Michael; Yang, Tonghai) Derivatives of Eisenstein series and Faltings heights. (English summary) **2005f:11124**

Li, Xian-Jin On the trace of Hecke operators for Maass forms for congruence subgroups. II. (English summary) **2005i:11059**

Ono, Ken ★ The web of modularity: arithmetic of the coefficients of modular forms and q-series. **2005c:11053**

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Then, Holger Maass cusp forms for large eigenvalues. (English summary) **2005h:11106**

Tóth, Árpád On the evaluation of Salié sums. (English summary) **2005h:11177**

Yang, Tonghai Faltings heights and the derivative of Zagier's Eisenstein series. **2005e:11086**

— *see also* **Kudla, Stephen S. et al.**, **2005f:11124**

11F41 Hilbert and Hilbert-Siegel modular groups and their modular and automorphic forms; Hilbert modular surfaces [see also 14J20]

Andreatta, Fabrizio (*with* Goren, Eyal Z.) Hilbert modular varieties of low dimension. (English summary) **2005g:11072**

Blasius, Don Elliptic curves, Hilbert modular forms, and the Hodge conjecture. **2005f:11083**

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Grundman, Helen G. (*with* Lippincott, L. E.) Hilbert modular fourfolds of arithmetic genus one. (English summary) **2005d:11065**

Langer, Andreas On the Tate-conjecture for Hilbert modular surfaces in finite characteristic. **2005d:11066**

Lanphier, Dominic Petersson norms and liftings of Hilbert modular forms. (English summary) **2005g:11073**

Lee, Min Ho[1] Hilbert modular bundles of pseudodifferential operators. (English summary) **2005h:11097**

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Bertolini, Massimo (*with* Darmon, Henri; Green, Peter Eric) Periods and points attached to quadratic algebras. **2005e:11062**

Chan, Wai Kiu (*with* Peters, Meinhard) Quaternary quadratic forms and Hilbert modular surfaces. (English summary) **2005m:11062**

Darmon, Henri (*with* Logan, Adam) Periods of Hilbert modular forms and rational points on elliptic curves. **2005f:11110**

— *see also* **Bertolini, Massimo et al.**, **2005e:11062**

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Knightly, Andrew H. Tate classes on a product of two Picard modular surfaces. (English summary) **2005f:11087**

Logan, Adam *see* **Darmon, Henri**, **2005f:11110**

Meekin, Paul *see* **Jarvis, Frazer**, **2005g:11045**

Peters, Meinhard *see* **Chan, Wai Kiu**, **2005m:11062**

Shimura, Goro Inhomogeneous quadratic forms and triangular numbers. (English summary) **2005a:11047**

11F46 Siegel modular groups and their modular and automorphic forms

Böcherer, Siegfried (*with* Chiera, F. L.) Petersson products of singular and almost singular theta series. (English summary) **2005m:11086**
Chiera, F. L. *see* **Böcherer, Siegfried**, **2005m:11086**
Choie, Young Ju (*with* Kohnen, Winfried) On the Petersson norm of certain Siegel modular forms. (English summary) **2005a:11058**
Courtieu, Michel (*with* Panchishkin, A. A.) ★ Non-Archimedean L-functions and arithmetical Siegel modular forms. **2005e:11056**
Dieulefait, Luis V. Irreducibility of Galois actions on level 1 Siegel cusp forms. (English summary) **2005g:11074**
Freitag, Eberhard (*with* Salvati Manni, Riccardo) The Burkhardt group and modular forms. (English summary) **2005m:11087**
— (*with* Salvati Manni, Riccardo) The Burkhardt group and modular forms. II. (English summary) **2005j:11033**
Fukuda, Takashi (*with* Komatsu, Keiichi) An application of Siegel modular functions to Kronecker's limit formula. (English summary) **2005a:11059**
Ghitza, Alexandru Upper bound on the number of systems of Hecke eigenvalues for Siegel modular forms (mod p). **2005j:11034**
— Hecke eigenvalues of Siegel modular forms (mod p) and of algebraic modular forms. (English summary) **2005d:11067**
Gunji, Keiichi On the graded ring of Siegel modular forms of degree 2, level 3. (English summary) **2005e:11057**
Ibukiyama, T. (*with* Katsurada, Hidenori) An explicit formula for the Koecher-Maaß Dirichlet series for the Ikeda lifting. **2005i:11063**
Imamoğlu, Özlem (*with* Martin, Yves L.) On convolutions of Siegel modular forms. (English summary) **2005i:11064**
Katsurada, Hidenori *see* **Ibukiyama, T.**, **2005i:11063**
Kohnen, Winfried Special Siegel modular forms and singular series polynomials of quadratic forms. **2005c:11056**
— Linear relations between Fourier coefficients of special Siegel modular forms. (English summary) **2005a:11060**
— (*with* Salvati Manni, Riccardo) Linear relations between theta series. **2005d:11068**
— *see also* **Choie, Young Ju**, **2005a:11058**
Komatsu, Keiichi *see* **Fukuda, Takashi**, **2005a:11059**
Martin, Yves L. *see* **Imamoğlu, Özlem**, **2005i:11064**
Miyazaki, Takuya On Saito-Kurokawa lifting to cohomological Siegel modular forms. (English summary) **2005c:11057**
Panchishkin, A. A. *see* **Courtieu, Michel**, **2005e:11056**
Salvati Manni, Riccardo *see* **Kohnen, Winfried**, **2005d:11068**; **Freitag, Eberhard**, **2005j:11033** *and* **2005m:11087**
Schmidt, Ralf Iwahori-spherical representations of GSp(4) and Siegel modular forms of degree 2 with square-free level. (English summary) **2005i:11065**

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Andrianov, Anatoliĭ N. Maass theta-series and zeta functions. (English summary) **2005i:11060**
— (*with* Andrianov, Fedor A.) Action of Hecke operators on products of Igusa theta constants with rational characteristics. **2005f:11089**
Andrianov, Fedor A. *see* **Andrianov, Anatoliĭ N.**, **2005f:11089**
Bump, Daniel (*with* Ginzburg, David) An L-function of degree 27 for spin_9. (English summary) **2005c:11062**
Faber, Carel (*with* van der Geer, Gerard) Sur la cohomologie des systèmes locaux sur les espaces de modules des courbes de genre 2 et des surfaces abéliennes. I. (English and French summaries) [Cohomology of local systems on the moduli spaces of curves of genus 2 and of abelian surfaces. I] **2005a:14033a**
— (*with* van der Geer, Gerard) Sur la cohomologie des systèmes locaux sur les espaces de modules des courbes de genre 2 et des surfaces abéliennes. II. (English and French summaries) [Cohomology of local systems on the moduli spaces of curves of genus 2 and of abelian surfaces. II] **2005a:14033b**
van der Geer, Gerard *see* **Faber, Carel**, **2005a:14033a** *and* **2005a:14033b**
Ginzburg, David *see* **Bump, Daniel**, **2005c:11062**
Goresky, Mark (*with* Tai, Yung Sheng) Anti-holomorphic multiplication and a real algebraic modular variety. (English summary) **2005d:11085**
Grushevsky, Samuel (*with* Salvati Manni, Riccardo) Gradients of odd theta functions. (English summary) **2005e:14069**
Hayashida, Shuichi Skew-holomorphic Jacobi forms of index 1 and Siegel modular forms of half-integral weight. (English summary) **2005i:11066**
Hida, Haruzo ★ p-adic automorphic forms on Shimura varieties. **2005e:11054**
Kohnen, Winfried On the growth of Fourier coefficients of certain special Siegel cusp forms. (English summary) **2005f:11077**
Kraniotis, G. V. (*with* Whitehouse, S. B.) Compact calculation of the perihelion precession of Mercury in general relativity, the cosmological constant and Jacobi's inversion problem. (English summary) **2005g:83015**
Kudla, Stephen S. Special cycles and derivatives of Eisenstein series. **2005g:11108**
Matsumoto, Keiji[1] Automorphic forms on the complex and real balls derived from theta constants. (English summary) **2005f:32037**
Raghavan, Srinivasacharya Automorphic forms and Dirichlet series. **2005m:11095**
Richter, Olav K. On transformation laws for theta functions. (English summary) **2005j:11032**
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Tai, Yung Sheng *see* **Goresky, Mark**, **2005d:11085**
Whitehouse, S. B. *see* **Kraniotis, G. V.**, **2005g:83015**
(Yoshida, Masaaki) *see* **Matsumoto, Keiji**[1], **2005f:32037**

11F50 Jacobi forms

Bayad, Abdelmejid Applications aux sommes elliptiques d'Apostol-Dedekind-Zagier (English and French summaries) [Applications to elliptic Apostol-Dedekind-Zagier sums] **2005k:11094**
— (*with* Gómez Ayala, Eugenio Jesús) Formes de Jacobi et formules de distribution. (English summary) [Jacobi forms and distribution formulas] **2005m:11088**
Betsumiya, Koichi (*with* Choie, Young Ju) Jacobi forms over totally real fields and type II codes over Galois rings $\mathrm{GR}(2^m, f)$. (English summary) **2005c:11058**
Choie, Young Ju (*with* Solé, Patrick) Ternary codes and Jacobi forms. (English summary) **2005a:11061**
— *see also* **Betsumiya, Koichi**, **2005c:11058**
Gómez Ayala, Eugenio Jesús *see* **Bayad, Abdelmejid**, **2005m:11088**
Hayashida, Shuichi Skew-holomorphic Jacobi forms of index 1 and Siegel modular forms of half-integral weight. (English summary) **2005i:11066**
Richter, Olav K. (*with* Skogman, Howard) Jacobi theta functions over number fields. (English summary) **2005a:11062**
Skogman, Howard On the Fourier expansions of Jacobi forms. (English summary) **2005i:11067**
— *see also* **Richter, Olav K.**, **2005a:11062**
Solé, Patrick *see* **Choie, Young Ju**, **2005a:11061**

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Bayad, Abdelmejid Sommes elliptiques multiples d'Apostol-Dedekind-Zagier. (English and French summaries) [Multiple elliptic Apostol-Dedekind-Zagier sums] **2005h:11195**
Choie, Young Ju (*with* Dougherty, Steven T.) Codes over Σ_{2m} and Jacobi forms over the quaternions. (English summary) **2005g:94096**
— (*with* Taguchi, Yuichiro) A simple proof of the modular identity for theta series. (English summary) **2005m:11080**
Dougherty, Steven T. *see* **Choie, Young Ju**, **2005g:94096**
Imamoğlu, Özlem (*with* Martin, Yves L.) On convolutions of Siegel modular forms. (English summary) **2005i:11064**
Kraniotis, G. V. (*with* Whitehouse, S. B.) Compact calculation of the perihelion precession of Mercury in general relativity, the cosmological constant and Jacobi's inversion problem. (English summary) **2005g:83015**
Lee, Min Ho[1] ★ Mixed automorphic forms, torus bundles, and Jacobi forms. **2005e:11059**
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11F52 Modular forms associated to Drinfel′d modules

Brown, Martin L. ★ Heegner modules and elliptic curves. **2005e:11058**
Pál, Ambrus Theta series, Eisenstein series and Poincaré series over function fields. (English summary) **2005b:11057**

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Frenkel, Edward Recent advances in the Langlands program. (English summary) **2005e:11147**

11F55 Other groups and their modular and automorphic forms (several variables)

Bruinier, Jan Hendrik (*with* Funke, Jens) On two geometric theta lifts. (English summary) **2005m:11089**
— Two applications of the curve lemma for orthogonal groups. (English summary) **2005f:11084**
Dern, Tobias (*with* Krieg, Aloys) The graded ring of Hermitian modular forms of degree 2 over $\mathbb{Q}(\sqrt{-2})$. (English summary) **2005d:11069**
Dou, Ze-Li Arithmeticity and theta correspondence on an orthogonal group. **2005f:11085**
Dutta Gupta, Shamita (*with* She, Xiaotie) On Euler products associated with forms of 4-fold cover of GL(3). (English summary) **2005i:11068**
Flicker, Yuval Z. Automorphic forms on SO(4). (English summary) **2005f:11086**
Funke, Jens *see* **Bruinier, Jan Hendrik**, **2005m:11089**
Knightly, Andrew H. Tate classes on a product of two Picard modular surfaces. (English summary) **2005f:11087**
Kraußhar, Rolf Sören A theory of modular forms in Clifford analysis, their applications and perspectives. (English summary) **2005k:11095**
Krieg, Aloys *see* **Dern, Tobias**, **2005d:11069**
Lee, Min Ho[1] ★ Mixed automorphic forms, torus bundles, and Jacobi forms. **2005e:11059**
Miller, Andrea Elisabeth ★ Relatively complete models of Picard modular surfaces. **2005b:11058**
Murase, Atsushi (*with* Sugano, Takashi) Automorphic forms on third-order unitary groups. (Japanese) **2005k:11096**
Narita, H. Fourier expansion of holomorphic modular forms on classical Lie groups of tube type along the minimal parabolic subgroup. (English summary) **2005h:11098**
Ramakrishnan, Dinakar Existence of Ramanujan primes for GL(3). **2005f:11088**
She, Xiaotie *see* **Dutta Gupta, Shamita**, **2005i:11068**
Sugano, Takashi *see* **Murase, Atsushi**, **2005k:11096**

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Beineke, Jennifer (*with* Bump, Daniel) Moments of the Riemann zeta function and Eisenstein series. I. (English summary) **2005b:11130**

Bruinier, Jan Hendrik (*with* Bundschuh, Michael) On Borcherds products associated with lattices of prime discriminant. (English summary) **2005a:11057**

— Infinite products in number theory and geometry. (English summary) **2005m:11085**

Buium, Alexandru Differential modular forms on Shimura curves. I. (English summary) **2005b:11080**

— Differential modular forms on Shimura curves. II. Serre operators. (English summary) **2005g:11107**

Bump, Daniel *see* **Beineke, Jennifer**, **2005b:11130**

Bundschuh, Michael *see* **Bruinier, Jan Hendrik**, **2005a:11057**

Choie, Young Ju (*with* Dougherty, Steven T.) Codes over rings, complex lattices and Hermitian modular forms. (English summary) **2005h:11144**

Cogdell, James W. (*with* Piatetski-Shapiro, Ilya I.) Remarks on Rankin-Selberg convolutions. **2005d:11075**

Dougherty, Steven T. *see* **Choie, Young Ju**, **2005h:11144**

Ghitza, Alexandru Hecke eigenvalues of Siegel modular forms (mod p) and of algebraic modular forms. (English summary) **2005d:11067**

Grenié, Loïc Poles of L-functions, periods and unitary theta. I. Odd to even. (English summary) **2005i:11070**

Harada, Masaaki *see* **Bannai, Eiichi et al.**, **2005a:94085**

Ibukiyama, T. *see* **Bannai, Eiichi et al.**, **2005a:94085**

Ichino, Atsushi A regularized Siegel-Weil formula for unitary groups. (English summary) **2005g:11082**

Ishii, Taku Siegel-Whittaker functions on $SO_0(2, q)$ for class one principal series representations. (English summary) **2005c:22021**

Kisbye, N. P. The integral kernel in the Kuznetsov sum formula for $SU(n + 1, 1)$. II. The case of one dimensional K-types. (English summary) **2005c:22018**

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Lee, Min Ho[1] Hecke operators on mixed automorphic forms and Kuga fiber varieties. (English summary) **2005g:11075**

Matsumoto, Keiji[1] (*with* Terasoma, Tomohide) Theta constants associated to coverings of $\mathbf{P}^1$ branching at eight points. (English summary) **2005k:14072**

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Piatetski-Shapiro, Ilya I. *see* **Cogdell, James W.**, **2005d:11075**

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Richter, Olav K. (*with* Skogman, Howard) Jacobi theta functions over number fields. (English summary) **2005a:11062**

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11F67 Special values of automorphic L-series, periods of modular forms, cohomology, modular symbols

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11F72 Spectral theory; Selberg trace formula

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11F75 Cohomology of arithmetic groups

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11F80 Galois representations

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11F85 p-adic theory, local fields [see also 14G20, 22E50]

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Buium, Alexandru Pfaffian equations satisfied by differential modular forms. (English summary) **2005i:11056**
Buzzard, Kevin On p-adic families of automorphic forms. (English summary) **2005g:11069**
Calegari, Frank (*with* Emerton, Matthew) The Hecke algebra T_k has large index. (English summary) **2005e:11051**
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Zhu, Hui June *see* **Berger, Laurent et al., 2005k:11104**

11Gxx Arithmetic algebraic geometry (Diophantine geometry) [see also 11Dxx, 14Gxx, 14Kxx]

11G05 Elliptic curves over global fields [see also 14H52]

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Breuer, Florian Higher Heegner points on elliptic curves over function fields. (English summary) **2005g:11092**
Bruin, Nils Visualising Sha[2] in abelian surfaces. (English summary) **2005c:11067**
Campbell, Garikai Points on $y = x^2$ at rational distance. (English summary) **2005h:11110**
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Cojocaru, Alina Carmen Questions about the reductions modulo primes of an elliptic curve. **2005i:11075**
— (*with* Duke, William) Reductions of an elliptic curve and their Tate-Shafarevich groups. (English summary) **2005m:11102**
— (*with* Murty, Maruti Ram) Cyclicity of elliptic curves modulo p and elliptic curve analogues of Linnik's problem. (English summary) **2005k:11108**
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11G07 Elliptic curves over local fields [see also 14G20, 14H52]

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11G09 Drinfel′d modules; higher-dimensional motives, etc. [see also 14L05]

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11G10 Abelian varieties of dimension > 1 [see also 14Kxx]

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11G15 Complex multiplication and moduli of abelian varieties [see also 14K22]

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11G25 Varieties over finite and local fields [see also 14G15, 14G20]

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11G30 Curves of arbitrary genus or genus $\neq 1$ over global fields [see also 14H25]

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11G35 Varieties over global fields [see also 14G25]

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11G40 L-functions of varieties over global fields; Birch-Swinnerton-Dyer conjecture [see also 14G10]

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11Hxx Geometry of numbers {For applications in coding theory, see 94B75.}

11H06 Lattices and convex bodies [see also 11P21, 52C05, 52C07]

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11H31 Lattice packing and covering [see also 05B40, 52C15, 52C17]

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11H46 Products of linear forms

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11H50 Minima of forms

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11H55 Quadratic forms (reduction theory, extreme forms, etc.)

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11H56 Automorphism groups of lattices

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11H71 Relations with coding theory

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11Jxx Diophantine approximation, transcendental number theory [see also 11K60]

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11J04 Homogeneous approximation to one number

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11J06 Markov and Lagrange spectra and generalizations

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11J13 Simultaneous homogeneous approximation, linear forms

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11J17 Approximation by numbers from a fixed field

Evertse, Jan-Hendrik Distances between the conjugates of an algebraic number. (English summary) **2005h:11148**
Galambos, Janos Approximation of real numbers by rationals via series expansions. **2005m:11129**

11J20 Inhomogeneous linear forms

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11J25 Diophantine inequalities [see also 11D75]

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11J54 Small fractional parts of polynomials and generalizations

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11J61 Approximation in non-Archimedean valuations

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11J68 Approximation to algebraic numbers

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11J70 Continued fractions and generalizations [see also 11A55, 11K50]

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11J71 Distribution modulo one [see also 11K06]

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11J72 Irrationality; linear independence over a field

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11J81 Transcendence (general theory)

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11J82 Measures of irrationality and of transcendence

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11J85 Algebraic independence; Gel′fond's method

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11J86 Linear forms in logarithms; Baker's method

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11J89 Transcendence theory of elliptic and abelian functions

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11J91 Transcendence theory of other special functions

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Zhu, Yao Chen Algebraic independence of certain infinite products. (Chinese. English and Chinese summaries) **2005b:11115**

11J93 Transcendence theory of Drinfel′d and t-modules

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11J95 Results involving abelian varieties

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11J97 Analogues of methods in Nevanlinna theory (work of Vojta et al.)

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11J99 None of the above, but in this section

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11Kxx Probabilistic theory: distribution modulo 1; metric theory of algorithms

11K06 General theory of distribution modulo 1 [see also 11J71]

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11K16 Normal numbers, radix expansions, etc. [see also 11A63]

Akiyama, Shigeki (*with* Rao, Hui; Steiner, Wolfgang) A certain finiteness property of Pisot number systems. (English summary) **2005g:11135**

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11K31 Special sequences

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Zaharescu, Alexandru *see* **Boca, Florin P. et al.**, **2005e:11023**

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11K36 Well-distributed sequences and other variations

Murty, Maruti Ram (*with* Saidak, Filip) Non-abelian generalizations of the Erdős-Kac theorem. (English summary) **2005a:11114**

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11K38 Irregularities of distribution, discrepancy [see also 11Nxx]

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Grozdanov, V. S. The generalized b-adic diaphony of the net of Zaremba-Halton over finite abelian groups. (English summary) **2005g:11138**
— (*with* Stoilova, S. S.) Price and Haar type functions and uniform distribution of sequences. (English summary) **2005f:11159**
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Ichikawa, Yuko (*with* Mori, Makoto) Discrepancy of van der Corput sequences generated by piecewise linear transformations. (English summary) **2005f:11160**
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Fouvry, Étienne (*with* Michel, Philippe Gabriel; Rivat, Joël; Sárközy, András) On the pseudorandomness of the signs of Kloosterman sums. (English summary) **2005h:11165**
Grozdanov, V. S. (*with* Stoilova, S. S.) The inequality of Erdős-Turan-Koksma. An arbitrary complete orthonormal functional system on $\mathscr{B}$-adic base. (English summary) **2005h:11164**
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Tezuka, Shu (*with* Faure, Henri) I-binomial scrambling of digital nets and sequences. (English summary) **2005b:11121**
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Tokuyama, Takeshi *see* **Sadakane, Kunihiko et al.,** (**2005a:68007**)
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Wehr, Petra *see* **Doerr, Benjamin et al., 2005c:11018**

11K41 Continuous, p-adic and abstract analogues

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Stoilova, S. S. *see* **Grozdanov, V. S., 2005h:11164**
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Marklof, Jens (*with* Strömbergsson, Andreas) Equidistribution of Kronecker sequences along closed horocycles. (English summary) **2005d:37011**
Murty, Maruti Ram (*with* Sumner, Sarah) On the p-adic series $\sum_{n=1}^{\infty} n^k \cdot n!$. **2005h:11042**
Strömbergsson, Andreas *see* **Marklof, Jens, 2005d:37011**
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11K45 Pseudo-random numbers; Monte Carlo methods

Blackburn, Simon R. (*with* Gomez-Perez, Domingo; Gutierrez, Jaime; Shparlinski, Igor E.) Predicting nonlinear pseudorandom number generators. (English summary) **2005m:11142**
Chi, Hongmei *see* **Mascagni, Michael, 2005g:11141**
Conflitti, Alessandro (*with* Shparlinski, Igor E.) On the multidimensional distribution of the subset sum generator of pseudorandom numbers. (English summary) **2005d:11112**
Dai, Zongduo *see* **Feng, Xiutao et al., 2005k:11155**
Deng, Lih-Yuan Generalized Mersenne prime number and its application to random number generation. (English summary) (*see* **2005b:65002**)
Dobrovol'skiĭ, M. N. On optimal coefficients of combined lattices. (Russian. Russian summary) **2005m:11143**
Dobrovol'skiĭ, N. M. Multidimensional number-theoretic grids and lattices and their applications to approximate analysis. (Russian) **2005g:11140**
Dorfer, Gerhard Lattice profile and linear complexity profile of pseudorandom number sequences. (English summary) **2005f:11163**
Faure, Henri *see* **Tezuka, Shu, 2005b:11121**
Feng, Xiutao (*with* Wang, Quanlong; Dai, Zongduo) Multi-sequences with d-perfect property. (English summary) **2005k:11155**
Fouvry, Étienne (*with* Michel, Philippe Gabriel; Rivat, Joël; Sárközy, András) On the pseudorandomness of the signs of Kloosterman sums. (English summary) **2005h:11165**
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— On a family of pseudorandom binary sequences. (English summary) **2005h:11167**
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— On the correlation of binary sequences. (English summary) **2005m:11144**
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Meidl, Wilfried (*with* Winterhof, Arne) On the linear complexity profile of some new explicit inversive pseudorandom numbers. (English summary) **2005b:11120**
Michel, Philippe Gabriel *see* **Fouvry, Étienne et al., 2005h:11165**
Oon, Shea-Ming Pseudorandom properties of prime factors. (English summary) **2005h:11170**
Rivat, Joël *see* **Mauduit, Christian et al., 2005a:11117** *and* **Fouvry, Étienne et al., 2005h:11165**
Sárközy, András *see* **Mauduit, Christian et al., 2005a:11117; 2005g:11142; Fouvry, Étienne et al., 2005h:11165** *and* **Hubert, Pascal, 2005h:11169**
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— *see also* **Vronskaya, G. T., 2005k:11137**

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Goresky, Mark (*with* Klapper, Andrew) Periodicity and correlation properties of d-FCSR sequences. (English summary) **2005m:94021**
Kang, Mihyun Efficiency test of pseudorandom number generators using random walks. (English summary) **2005h:65011**
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Klapper, Andrew Distributional properties of d-FCSR sequences. (English summary) **2005c:94039**
— *see also* **Goresky, Mark**, **2005m:94021**
Korobov, N. M. *see* **Dobrovol′skiĭ, N. M.**, **2005a:65027**
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Panneton, François (*with* L'Ecuyer, Pierre) Random number generators based on linear recurrences in $\mathbb{F}_{2^w}$. (English summary) (*see* **2005b:65002**)
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11K50 Metric theory of continued fractions [see also 11A55, 11J70]

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Barbolosi, D. (*with* Faivre, C.) Sur les grands quotients partiels du développement en fraction continue. (English summary) [On large partial quotients in continued fraction expansion] **2005d:11115**
Chan, Hei-Chi A Gauss-Kuzmin-Lévy theorem for a certain continued fraction. (English summary) **2005d:11116**
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Ivan, Constantin A note on some limit theorems in the metrical theory of continued fractions. (English summary) **2005c:11099**
Kraaikamp, Cor (*with* Wu, Jun^2) On a new continued fraction expansion with non-decreasing partial quotients. (English summary) **2005i:11099**
— *see also* **Iosifescu, Marius**, **2005f:11165** *and* **Hartono, Y.**, **2005k:11157**
Nakada, Hitoshi *see* **Inoue, Kae**, **2005b:11122**
Natsui, Rie On the isomorphism problem of α-Farey maps. (English summary) **2005g:11144**
Roçadas, Luís The integral mean of the sum-of-digits function of the Ostrowski expansion. **2005a:11118**
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Jenkinson, Oliver On the density of Hausdorff dimensions of bounded type continued fraction sets: the Texan conjecture. (English summary) **2005m:28021**
Martins Rodrigues, Pedro (*with* Sousa Ramos, José) Some properties of the Jacobi-Perron algorithm. (English summary) **2005g:39041**
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11K55 Metric theory of other algorithms and expansions; measure and Hausdorff dimension [see also 11N99, 28Dxx]

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Berechet, Adriana Solving a conjecture about certain f-expansions. (English summary) **2005m:11145**
Bugeaud, Yann An inhomogeneous Jarník theorem. (English summary) **2005f:11166**
Fan, Ai Hua^1 (*with* Wu, Jun^2) Metric properties and exceptional sets of the Oppenheim expansions over the field of Laurent series. (English summary) **2005f:11167**
Ganatsiou, Ch. On ergodic properties for a class of alternating number expansions. (English summary) **2005k:11160**
Jaffard, Stéphane On Davenport expansions. (English summary) **2005k:11161**
Olsen, Lars Ole Rønnow On the Hausdorff dimension of generalized Besicovitch-Eggleston sets of d-tuples of numbers. (English summary) **2005h:11171**
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Sándor, Csaba A family of self-similar sets with overlaps. (English summary) **2005h:11172**
Schweiger, Fritz Continued fractions with increasing digits. (English summary) **2005k:11162**
— Ergodic and Diophantine properties of algorithms of Selmer type. **2005b:11123**
Wu, Jun^2 Metric properties for p-adic Oppenheim series expansions. **2005a:11119**
— *see also* **Fan, Ai Hua^1**, **2005f:11167**

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Dodson, Maurice M. (*with* Kristensen, Simon) Hausdorff dimension and Diophantine approximation. **2005m:11139**
Fan, Ai Hua^1 (*with* Zhu, Hao) Level sets of β-expansions. (English and French summaries) **2005k:11150**
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Hartono, Y. (*with* Kraaikamp, Cor) Tong's spectrum for semi-regular continued fraction expansions. (English summary) **2005k:11157**
Jenkinson, Oliver On the density of Hausdorff dimensions of bounded type continued fraction sets: the Texan conjecture. (English summary) **2005m:28021**
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Nadkarni, M. G. Measures on the circle invariant under $z \to z^2$ and $z \to z^3$. (English summary) **2005b:37006**
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Olsen, Lars Ole Rønnow Applications of multifractal divergence points to some sets of d-tuples of numbers defined by their N-adic expansion. (English summary) **2005a:28019**
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Pfister, Charles E. (*with* Sullivan, Wayne G.) Large deviations estimates for dynamical systems without the specification property. Applications to the β-shifts. (English summary) **2005h:37015**
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Sinaĭ, Ya. G. A theorem about uniform distribution. (English summary) **2005g:37009**
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Zweimüller, Roland Kuzmin, coupling, cones, and exponential mixing. (English summary) **2005b:28024**

11K60 Diophantine approximation [see also 11Jxx]

Hensley, Doug (*with* Su, Francis Edward) Random walks with badly approximable

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Manuĭlov, N. N. Recursive self-similar partitions. (Russian) **2005f:11168**
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Beaver, Olga R. (*with* Garrity, Thomas) A two-dimensional Minkowski $?(x)$ function. (English summary) **2005g:11125**
Bugeaud, Yann An inhomogeneous Jarník theorem. (English summary) **2005f:11166**
Fuchs, Michael On a problem of W. J. LeVeque concerning metric Diophantine approximation. II. (English summary) **2005f:11149**
Garrity, Thomas *see* **Beaver, Olga R.**, **2005g:11125**
Naito, Koichiro Recurrent dimensions of quasi-periodic solutions for nonlinear evolution equations. II. Gaps of dimensions and Diophantine conditions. (English summary) **2005i:37028**

11K65 Arithmetic functions [see also 11Nxx]

Bassily, Nader L. (*with* De Koninck, Jean-Marie; Kátai, Imre) On a theorem of Daboussi related to the set of Gaussian integers. (English summary) **2005f:11170**
De Koninck, Jean-Marie *see* **Bassily, Nader L. et al.**, **2005f:11170**
Galambos, Janos (*with* Simonelli, Italo) Distribution of multiplicative functions: the symmetric case. (English summary) **2005f:11171**
Kátai, Imre *see* **Bassily, Nader L. et al.**, **2005f:11170**
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Păstéka, Milan (*with* Tichy, Robert F.) A note on the correlation coefficient of arithmetic functions. **2005c:11101**
Šiaulys, Jonas Moment's inequality for additive functions with rational argument. (English and Lithuanian summaries) **2005b:11124**
— On limit distributions of integer valued additive functions. (English and Lithuanian summaries) **2005k:11163**
— Distribution of the values of additive functions with respect to logarithmic frequency. (Russian. English, Russian and Lithuanian summaries) **2005m:11146**
Simonelli, Italo *see* **Galambos, Janos**, **2005f:11171**
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Takanobu, Satoshi *see* **Sugita, Hiroshi**, **2005b:11125**
Tichy, Robert F. *see* **Păstéka, Milan**, **2005c:11101**
Zakharovas, V. Distribution of the logarithm of the order of a random permutation. (Russian. English, Russian and Lithuanian summaries) **2005k:11164**

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Clary, Stuart (*with* Fabrykowski, Jacek) Arithmetic progressions, prime numbers, and squarefree integers. (English summary) **2005h:11209**
Fabrykowski, Jacek *see* **Clary, Stuart**, **2005h:11209**
Galambos, Janos (*with* Simonelli, Italo) ★ Products of random variables. **2005g:60005**
Luca, Florian *see* **Bugeaud, Yann et al.**, **2005k:11020**
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Murty, Maruti Ram (*with* Saidak, Filip) Non-abelian generalizations of the Erdős-Kac theorem. (English summary) **2005a:11114**
Oon, Shea-Ming Pseudorandom properties of prime factors. (English summary) **2005h:11170**
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Weber, Michel Jean Georges An arithmetical property of Rademacher sums. (English summary) **2005d:60051**
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— Corrigendum: "Mean-value theorems of multiplicative functions on additive arithmetic semigroups" [Math. Z **229** (1998), no. 2, 195–233; MR1652150 (99h:11113)]. **2005f:11214**

11K70 Harmonic analysis and almost periodicity

Glazunov, Nikolay M. (*with* Kapitonova, Yu. V.) On some contexts common to number theory and harmonic analysis. (Russian. English and Ukrainian summaries) **2005b:11126**
Indlekofer, Karl-Heinz (*with* Timofeev, Nikolai M.) Almost-periodic multiplicative functions on the set of shifted primes. (English summary) **2005i:11100**
Kapitonova, Yu. V. *see* **Glazunov, Nikolay M.**, **2005b:11126**
Lee, Yi-Wei Characterization of almost-periodic q-multiplicative functions. (English summary) **2005g:11146**
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Mauclaire, J.-L. On the distribution of the values of an additive arithmetical function with values in a locally compact abelian group. II. **2005i:11141**
Rudnick, Zéev *see* **Hughes, C. P.**, **2005e:11122**

11K99 None of the above, but in this section

Items with secondary classifications in 11K99

Alt, Rene *see* **Markov, Svetoslav M.**, **2005g:60012**
Arnold, Vladimir Igorevich Topology and statistics of formulas of arithmetic. (Russian. Russian summary) **2005c:11020**
Markov, Svetoslav M. (*with* Alt, Rene) Stochastic arithmetic: Addition and multiplication by scalars. (English summary) **2005g:60012**
Nair, Radhakrishnan (*with* Weber, Michel Jean Georges) On random perturbation of some intersective sets. (English summary) **2005k:37010**
Panario, Daniel What do random polynomials over finite fields look like? (English summary) **2005f:11279**
Weber, Michel Jean Georges *see* **Nair, Radhakrishnan**, **2005k:37010**

11Lxx Exponential sums and character sums {For finite fields, see 11Txx.}

(Davenport, Anne) *see* **Vinogradov, I. M.**, **2005f:11172**
(Roth, K. F.) *see* **Vinogradov, I. M.**, **2005f:11172**
Vinogradov, I. M. ★ The method of trigonometrical sums in the theory of numbers. **2005f:11172**

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Iwaniec, Henryk (*with* Kowalski, Emmanuel) ★ Analytic number theory. **2005h:11005**
Kowalski, Emmanuel *see* **Iwaniec, Henryk**, **2005h:11005**

11L03 Trigonometric and exponential sums, general

Berndt, Bruce C. (*with* Zaharescu, Alexandru) Finite trigonometric sums and class numbers. (English summary) **2005f:11173**
Katz, Nicholas M. Notes on G_2, determinants, and equidistribution. (English summary) **2005h:11173**
Kim, Dae San (*with* Kim, Dong Chan) Character sums and MacWilliams identities. (English summary) **2005d:11120**
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Laohakosol, Vichian *see* **Phuksuwan, Ouamporn et al.**, **2005m:11147**
Lichtin, Ben On a question of Igusa. II. Uniform asymptotic bounds for Fourier transforms in several variables. (English summary) **2005k:11165**
Phuksuwan, Ouamporn (*with* Udomkavanich, Patanee; Laohakosol, Vichian) An analysis of Ritt's factorization for exponential sums. (English summary) **2005m:11147**
Sergeev, Yaroslav D. Generation of symmetric exponential sums. (English summary) **2005d:11121**
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Zhu, Hui June L-functions of exponential sums over one-dimensional affinoids: Newton over Hodge. **2005h:11174**
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Bayad, Abdelmejid Applications aux sommes elliptiques d'Apostol-Dedekind-Zagier. (English and French summaries) [Applications to elliptic Apostol-Dedekind-Zagier sums] **2005k:11094**
Beck, Matthias Dedekind cotangent sums. **2005g:11061**
— (*with* Robins, Sinai) Dedekind sums: a combinatorial-geometric viewpoint. (English summary) **2005f:11070**
Bragg, L. R. Extended Hadamard products, trigonometric integrals and associated sums. (English summary) **2005j:30052**
Cochrane, Todd (*with* Liu, Ming-Chit; Zheng, Zhiyong) Upper bounds on n-dimensional Kloosterman sums. (English summary) **2005d:11122**
Krätzel, Ekkehard Estimates of Weyl's exponential sums for very small values of the variable. (English summary) **2005i:11107**
Kuroda, Mitsuru[2] Quadratic gauss sums on matrices. (English summary) **2005a:11194**
Lichtin, Ben Uniform bounds for some exponential sums (mod p^r) in two variables. **2005j:11058**
Liu, Ming-Chit *see* **Cochrane, Todd et al.**, **2005d:11122**
de la Maza, Ana-Cecilia Finite Aomoto-Ito-Macdonald sums. (English summary) **2005c:33013**
Robins, Sinai *see* **Beck, Matthias**, **2005f:11070**
Zheng, Zhiyong *see* **Cochrane, Todd et al.**, **2005d:11122**

11L05 Gauss and Kloosterman sums; generalizations

Adolphson, Alan (*with* Sperber, Steven) Exponential sums and free hyperplane arrangements. (English summary) **2005m:11148**
Aoki, Noboru A finiteness theorem on pure Gauss sums. **2005h:11175**
Araujo, José O. (*with* Fernández, Laura B.) Counting with Gauss sums. (Spanish. English and Spanish summaries) **2005m:11149**
Cochrane, Todd (*with* Liu, Ming-Chit; Zheng, Zhiyong) Upper bounds on n-dimensional Kloosterman sums. (English summary) **2005d:11122**

Dewar, Michael Patrick (*with* Panario, Daniel; Shparlinski, Igor E.) Distribution of exponential functions with k-full exponent modulo a prime. (English summary) **2005k:11166**
Fernández, Laura B. *see* **Araujo, José O., 2005m:11149**
Fu, Lei[1] (*with* Liu, Chun Lei[1]) Equidistribution of Gauss sums and Kloosterman sums. (English summary) **2005i:11102**
Gurak, Stanley J. Period polynomials for $\mathbb{F}_q$ of fixed small degree. (English summary) **2005g:11147**
Kanemitsu, Shigeru (*with* Tanigawa, Yoshio; Yi, Yuan; Zhang, Wen Peng) On general Kloosterman sums. (English summary) **2005f:11174**
Liu, Chun Lei[1] *see* **Fu, Lei[1], 2005i:11102**
Liu, Hong Yan On the fourth power mean of the general fourth-degree Gauss sum. (Chinese. English and Chinese summaries) **2005h:11176**
Liu, Hua Ning (*with* Zhang, Wen Peng) On the hybrid mean value of Gauss sums and generalized Bernoulli numbers. (English summary) **2005d:11123**
Liu, Ming-Chit *see* **Cochrane, Todd et al., 2005d:11122**
Molteni, Giuseppe About two trigonometric matrices. (English summary) **2005a:11120**
— Two trigonometric matrices. (English summary) **2005k:11167**
Moreno, Carlos Julio (*with* Wan, Aaron) Unusual applications of quadratic Gaussian sums. (English summary) **2005d:11124**
Panario, Daniel *see* **Dewar, Michael Patrick et al., 2005k:11166**
Proskurin, N. V. On general Kloosterman sums. (Russian. Russian summary) **2005a:11121**
Shen, Li-Chien On the theory of elliptic functions based on ${}_2F_1(\frac{1}{3}, \frac{2}{3}; \frac{1}{2}; z)$. (English summary) **2005m:11150**
Shparlinski, Igor E. Exponential function analogue of Kloosterman sums. (English summary) **2005g:11148**
— *see also* **Dewar, Michael Patrick et al., 2005k:11166**
Sperber, Steven *see* **Adolphson, Alan, 2005m:11148**
Tanigawa, Yoshio *see* **Kanemitsu, Shigeru et al., 2005f:11174**
Tóth, Árpád On the evaluation of Salié sums. (English summary) **2005h:11177**
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Yi, Yuan *see* **Kanemitsu, Shigeru et al., 2005f:11174**
Young, Paul Thomas Gauss sums and multinomial coefficients. (English summary) **2005a:11122**
Zhang, Wen Peng On the fourth power mean of the general Kloosterman sums. (English summary) **2005b:11127**
— On the general Kloosterman sum and its fourth power mean. (English summary) **2005e:11099**
— *see also* **Liu, Hua Ning, 2005d:11123** *and* **Kanemitsu, Shigeru et al., 2005f:11174**
Zheng, Zhiyong *see* **Cochrane, Todd et al., 2005d:11122**

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Bernardo, Mathieu (*with* Courbage, M.; Truong, T. T.) Multidimensional Gaussian sums arising from the distribution of Birkhoff sums in zero entropy dynamical systems. (English summary) **2005h:37013**
Bertin, Marie José Mesure de Mahler d'une famille de polynômes. (French summary) [Mahler measure of a family of polynomials] **2005g:11204**
Blomer, Valentin Shifted convolution sums and subconvexity bounds for automorphic L-functions. **2005m:11090**
Boca, Florin P. (*with* Gologan, Radu N.; Zaharescu, Alexandru) Sur le modèle du gaz de Lorentz périodique. (French summary) [On the periodic Lorentz gas model] **2005b:82074**
— (*with* Cobeli, Cristian; Zaharescu, Alexandru) On the distribution of the Farey sequence with odd denominators. **2005e:11023**
Bourgain, Jean Mordell type exponential sum estimates in fields of prime order. (English and French summaries) **2005h:11178**
Bruggeman, Roelof W. (*with* Motohashi, Yōichi) Sum formula for Kloosterman sums and fourth moment of the Dedekind zeta-function over the Gaussian number field. (English summary) **2005b:11180**
Chai, Ching-Li (*with* Li, Wen-Ching Winnie) Character sums, automorphic forms, equidistribution, and Ramanujan graphs. I. The Kloosterman sum conjecture over function fields. (English summary) **2005h:11136**
— (*with* Li, Wen-Ching Winnie) Character sums, automorphic forms, equidistribution, and Ramanujan graphs. II. Eigenvalues of Terras graphs. (English summary) **2005m:11120**
Chan, Tsz Ho Distribution of difference between inverses of consecutive integers modulo p. (English summary) **2005b:11159**
Cobeli, Cristian *see* **Boca, Florin P. et al., 2005e:11023**
Cochrane, Todd (*with* Pinner, Christopher) An improved Mordell type bound for exponential sums. (English summary) **2005h:11179**
Courbage, M. *see* **Bernardo, Mathieu et al., 2005h:37013**
DeDeo, M. R. Generalized Kloosterman sums over rings of order 2^r. (English summary) **2005a:11193**
Fouvry, Étienne (*with* Michel, Philippe Gabriel) Crible asymptotique et sommes de Kloosterman. [Asymptotic sieve and Kloosterman sums] **2005g:11185**
— (*with* Michel, Philippe Gabriel; Rivat, Joël; Sárközy, András) On the pseudorandomness of the signs of Kloosterman sums. (English summary) **2005h:11165**
Gao, Li[2] Distribution of the D. H. Lehmer number of primitive roots modulo p. (Chinese. English and Chinese summaries)
— On the distribution property of Lehmer DH number. (English summary) [On the distribution property of the D. H. Lehmer number] **2005h:11225**
— A generalization of the distribution of the D. H. Lehmer numbers. (Chinese. English and Chinese summaries)
Gologan, Radu N. *see* **Boca, Florin P. et al., 2005b:82074**
Goresky, Mark (*with* Klapper, Andrew; Murty, Maruti Ram; Shparlinski, Igor E.) On decimations of l-sequences. (English summary) **2005k:11030**
Hansen, Søren Kold (*with* Takata, Toshie) Reshetikhin-Turaev invariants of Seifert 3-manifolds for classical simple Lie algebras. (English summary) **2005g:57028**
Hollmann, Henk D. L. (*with* Xiang, Qing) Kloosterman sum identities over $\mathbf{F}_{2^m}$. (English summary) **2005c:11159**
Ivić, Aleksandar (*with* Jutila, Matti) On the moments of Hecke series at central points. II. (English summary) **2005g:11076**
Jacquet, Hervé Smooth transfer of Kloosterman integrals. (English summary) **2005a:11066**
Jutila, Matti *see* **Ivić, Aleksandar, 2005g:11076**
Klapper, Andrew *see* **Goresky, Mark et al., 2005k:11030**
Li, Wen-Ching Winnie *see* **Chai, Ching-Li, 2005h:11136** *and* **2005m:11120**
Michel, Philippe Gabriel *see* **Fouvry, Étienne et al., 2005g:11185** *and* **2005h:11165**
Mortenson, Eric Supercongruences for truncated ${}_{n+1}F_n$ hypergeometric series with applications to certain weight three newforms. (English summary) **2005f:11080**
Motohashi, Yōichi *see* **Bruggeman, Roelof W., 2005b:11180**
Motose, Kaoru Gauss sums are just characters of multiplicative groups of finite fields. (*see* **2005j:16001**)
Murty, Maruti Ram *see* **Goresky, Mark et al., 2005k:11030**
Pinner, Christopher *see* **Cochrane, Todd, 2005h:11179**
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Sárközy, András *see* **Fouvry, Étienne et al., 2005h:11165**
Shparlinski, Igor E. Bounds of Gauss sums in finite fields. (English summary) **2005g:11252**
— *see also* **Goresky, Mark et al., 2005k:11030**
Takata, Toshie *see* **Hansen, Søren Kold, 2005g:57028**
Truong, T. T. *see* **Bernardo, Mathieu et al., 2005h:37013**
Xiang, Qing *see* **Hollmann, Henk D. L., 2005c:11159**
Yang, Jin[2] (*with* Zheng, Weizhe) On a theorem of Chowla. (English summary) **2005b:11197**
Yi, Yuan (*with* Zhang, Wen Peng) On the $2k$-th power mean of inversion of L-functions with the weight of the Gauss sum. (English summary) **2005a:11130**
Zaharescu, Alexandru *see* **Boca, Florin P. et al., 2005b:82074** *and* **2005e:11023**
Zhang, Wen Peng *see* **Yi, Yuan, 2005a:11130**
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11L07 Estimates on exponential sums

Arkhipov, G. I. (*with* Chubarikov, V. N.) On some applications of Vinogradov's method. **2005d:11125**
— (*with* Chubarikov, V. N.; Karatsuba, A. A.) ★ Trigonometric sums in number theory and analysis. **2005g:11149**
Banks, William D. (*with* Shparlinski, Igor E.) Congruences and exponential sums with the Euler function. (English summary) **2005g:11150**
Bourgain, Jean New bounds on exponential sums related to the Diffie-Hellman distributions. (English and French summaries) **2005b:11128**
— Mordell type exponential sum estimates in fields of prime order. (English and French summaries) **2005h:11178**
Boyarinov, R. N. On the distribution of the values of an analogue of the zeta sum. (Russian. Russian summary) **2005k:11168**
de la Bretèche, Régis (*with* Tenenbaum, Gérald) Séries trigonométriques à coefficients arithmétiques. [Trigonometric series with arithmetical coefficients] **2005i:11103**
Chubarikov, V. N. *see* **Arkhipov, G. I. et al., 2005d:11125** *and* **2005g:11149**
Cluckers, Raf Multivariate Igusa theory: decay rates of exponential sums. **2005i:11104**
Cochrane, Todd (*with* Pinner, Christopher) An improved Mordell type bound for exponential sums. (English summary) **2005h:11179**
Cohen, Stephen D. (*with* Dewar, Michael Patrick; Friedlander, John B.; Panario, Daniel; Shparlinski, Igor E.) Polynomial Gauss sums. (English summary) **2005m:11151**
Dewar, Michael Patrick *see* **Cohen, Stephen D. et al., 2005m:11151**
Èminyan, K. M. The L_1-norm of a trigonometric sum. (Russian. Russian summary) **2005i:11105**
Friedlander, John B. *see* **Cohen, Stephen D. et al., 2005m:11151**
Gao, Li[2] Distribution of the D. H. Lehmer number of primitive roots modulo p. (Chinese. English and Chinese summaries)
Huxley, Martin N. Resonance curves in the Bombieri-Iwaniec method. (English summary) **2005i:11106**
— Exponential sums and the Riemann zeta function. V. **2005h:11180**
Karatsuba, A. A. Zeros and points of local extrema of trigonometric sums. (Russian. Russian summary) **2005h:11181**
— *see also* **Arkhipov, G. I. et al., 2005g:11149**
Lange, Tanja (*with* Shparlinski, Igor E.) Certain exponential sums and random walks on elliptic curves. (English summary) **2005k:11169**
Lichtin, Ben Uniform bounds for some exponential sums (mod p^r) in two variables. **2005j:11058**
Liu, Hong Yan (*with* Zhang, Wen Peng) On the mean square value of a generalized Cochrane sum. (English summary) **2005b:11129**
Panario, Daniel *see* **Cohen, Stephen D. et al., 2005m:11151**
Pinner, Christopher *see* **Cochrane, Todd, 2005h:11179**
Robert, O. An analogue of van der Corput's A^5-process for exponential sums. (English summary) **2005d:11126**
Schlage-Puchta, Jan-Christoph The exponential sum over squarefree integers. **2005h:11187**
Shparlinski, Igor E. Distribution of exponential functions with squarefull exponent in residue rings. (English summary) **2005h:11183**
— *see also* **Banks, William D., 2005g:11150**; **Lange, Tanja, 2005k:11169** *and* **Cohen, Stephen D. et al., 2005m:11151**
Tenenbaum, Gérald *see* **de la Bretèche, Régis, 2005i:11103**
Watt, Nigel On differences of semicubical powers. (English summary) **2005g:11151**
Zhang, Wen Peng *see* **Liu, Hong Yan, 2005b:11129**

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Alkan, Emre (*with* Zaharescu, Alexandru) Nonvanishing of Fourier coefficients of newforms in progressions. **2005i:11062**
Banks, William D. (*with* Hart, Derrick N.; Sakata, Mayumi) Almost all palindromes are composite. (English summary) **2005h:11224**
— (*with* Conflitti, Alessandro; Shparlinski, Igor E.) Number theoretic designs for directed regular graphs of small diameter. (English summary) **2005e:05064**

Belozorov, G. (*with* Varbanets, P. D.) Diophantine equations with quadratic forms. **2005h:11080**
Brüdern, Jörg (*with* Perelli, Alberto) A note on the distribution of sumsets. **2005m:11033**
Castro, Francis N. *see* **Moreno, Oscar et al., 2005g:11114**
Chan, Tsz Ho Distribution of difference between inverses of consecutive integers modulo p. (English summary) **2005b:11159**
Cheng, Yuanyou F. (*with* Graham, Sidney W.) Explicit estimates for the Riemann zeta function. (English summary) **2005f:11179**
Cochrane, Todd (*with* Liu, Ming-Chit; Zheng, Zhiyong) Upper bounds on n-dimensional Kloosterman sums. (English summary) **2005d:11122**
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Watt, Nigel On the mean squared modulus of a Dirichlet L-function over a short segment of the critical line. **2005a:11129**
Zhao, Liangyi Large sieve inequality with characters to square moduli. **2005b:11151**

11L20 Sums over primes

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11Mxx Zeta and L-functions: analytic theory

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11M06 $\zeta(s)$ and $L(s, \chi)$

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Broughan, Kevin A. The holomorphic flow of Riemann's function $\xi(z)$. (English summary) **2005m:11152**
Bruggeman, Roelof W. (*with* Motohashi, Yōichi) A new approach to the spectral theory of the fourth moment of the Riemann zeta-function. (English summary) **2005i:11108**
Brydun, A. M. (*with* Kondratyuk, A. A.) On the Fourier series of the zeta-function logarithm on the vertical lines. (English and Russian summaries) **2005k:11172**
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Cheng, Yuanyou F. (*with* Graham, Sidney W.) Explicit estimates for the Riemann zeta function. (English summary) **2005f:11179**
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Motohashi, Yōichi A multiple sum involving the Möbius function. (English summary) **2005k:11010**
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Tsumura, Hirofumi Evaluation formulas for Tornheim's type of alternating double series. (English summary) **2005d:11137**
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Watkins, Mark J. Class numbers of imaginary quadratic fields. (English summary) **2005a:11175**
Watt, Nigel On differences of semicubical powers. (English summary) **2005g:11151**
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11M20 Real zeros of $L(s, \chi)$; results on $L(1, \chi)$

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Louboutin, Stéphane R. Remarks on S. Chowla's hypothesis implying that $L(s, \chi) > 0$ for $s > 0$ and for real characters χ. (English summary) **2005f:11186**
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— Explicit upper bounds for $|L(1, \chi)|$ for primitive characters χ. (English summary) **2005e:11107**
Ramaré, Olivier Approximate formulae for $L(1, \chi)$. II. **2005g:11156**
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Yoshimoto, Masami *see* **Kanemitsu, Shigeru et al., 2005f:11185**
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11N45 Asymptotic results on counting functions for algebraic and topological structures

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11N56 Rate of growth of arithmetic functions

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11P05 Waring's problem and variants

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— (*with* Tsang, Kai-Man) On Roth's theorem concerning a cube and three cubes of primes. (English summary) **2005e:11127**
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Zhang, Zhen Feng[2] An additive problem with primes in arithmetic progressions. (English summary) **2005k:11210**
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11P70 Inverse problems of additive number theory

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— (*with* Hennecart, François; Plagne, Alain) On small sumsets in $(\mathbb{Z}/2\mathbb{Z})^n$. (English summary) **2005f:11231**
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— (*with* Paule, Peter; Riese, Axel) MacMahon's partition analysis. X. Plane partitions with diagonals. (English summary) **2005k:11211**
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— On two-color partitions. (English summary) **2005c:11128**
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Xin, Guoce A fast algorithm for MacMahon's partition analysis. (English summary) **2005h:05015**
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11P82 Analytic theory of partitions

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Stanger, Adrian D. Exceptional congruences for powers of the partition function. (English summary) **2005h:11235**
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11P83 Partitions; congruences and congruential restrictions

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Chan, Heng Huat *see* **Berndt, Bruce C. et al., 2005i:11148**
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Dixmier, Jacques (*with* Nicolas, Jean-Louis) Parité de certains nombres de partitions. (English summary) [Parity of certain numbers of partitions] **2005g:11201**
Garvan, F. G. *see* **Atkin, A. O. L., 2005e:11131**
Hammond, Paul (*with* Lewis, Richard P.) Congruences in ordered pairs of partitions. (English summary) **2005f:11234**
Lewis, Richard P. *see* **Hammond, Paul, 2005f:11234**
Liaw, Wen-Chin *see* **Berndt, Bruce C. et al., 2005i:11148**
Mahlburg, Karl The overpartition function modulo small powers of 2. (English summary) **2005e:11132**
Maze, Gérard Partitions modulo n and circulant matrices. (English summary) **2005e:11133**
Nicolas, Jean-Louis *see* **Dixmier, Jacques, 2005g:11201**
Sellers, James A. Parity results for p-regular partitions with distinct parts. (English summary) **2005b:11167**
Stanger, Adrian D. Exceptional congruences for powers of the partition function. (English summary) **2005h:11235**

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Berkovich, Alexander *see* **Alladi, Krishnaswami et al., 2005g:11198**
Berndt, Bruce C. (*with* Yee, Ae Ja; Zaharescu, Alexandru) New theorems on the parity of partition functions. (English summary) **2005d:11151**
Boylan, Matthew Exceptional congruences for powers of the partition function. **2005c:11054**
Chandrashekara, B. M. *see* **Padmavathamma et al., 2005f:11232**
Kane, Daniel M. Resolution of a conjecture of Andrews and Lewis involving cranks of partitions. (English summary) **2005h:11234**
Ono, Ken Partitions and McKay numbers for S_n. (English summary) **2005h:20020**
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— (*with* Ruby Salestina, M.) A combinatorial proof of a theorem of Andrews on partitions. (English summary) **2005e:05010**
— (*with* Ruby Salestina, M.; Sudarshan, S. R.) A new theorem on partitions. (English summary) **2005m:11192**
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— *see also* **Berndt, Bruce C. et al., 2005d:11151**

11P99 None of the above, but in this section

Dias da Silva, José Linear algebra and additive theory. (English summary) **2005h:11236**

Items with secondary classifications in 11P99

McCutcheon, Randall A Sárközy theorem for finite fields. (English summary) **2005f:12002**

11Rxx Algebraic number theory: global fields {For complex multiplication, see 11G15.}

Alaca, Şaban (*with* Williams, Kenneth S.) ★ Introductory algebraic number theory. **2005d:11152**
Esmonde, Jody *see* **Murty, Maruti Ram, 2005c:11130**
Murty, Maruti Ram (*with* Esmonde, Jody) ★ Problems in algebraic number theory. **2005c:11130**
Narkiewicz, Władysław ★ Elementary and analytic theory of algebraic numbers. **2005c:11131**
Williams, Kenneth S. *see* **Alaca, Şaban, 2005d:11152**

11R04 Algebraic numbers; rings of algebraic integers

van Asch, Bram On the structure of the ring $\mathbb{Z}[\sqrt[3]{2}]$. (English summary) **2005h:11237**
Berry, Neil (*with* Dubickas, Artūras; Elkies, Noam D.; Poonen, Bjorn; Smyth, C. J.) The conjugate dimension of algebraic numbers. (English summary) **2005h:11238**
Borisov, Alexandr Convolution structures and arithmetic cohomology. (English summary) **2005f:11235**
Drungilas, Paulius (*with* Dubickas, Artūras) On subfields of a field generated by two conjugate algebraic numbers. (English summary) **2005h:11239**
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— On a height related to the *abc* conjecture. (English summary) **2005a:11159**
— (*with* Smyth, C. J.) On metric heights. (English summary) **2005a:11160**
— Conjugate algebraic numbers that are close to a symmetric set. (Russian. Russian summary) **2005h:11240**
— *see also* **Berry, Neil et al., 2005h:11238** *and* **Drungilas, Paulius, 2005h:11239**
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Farkas, Gábor Number systems in real quadratic fields. **2005j:11074**
— (*with* Kovács, Attila) Digital expansion in $\mathbb{Q}(\sqrt{2})$. (English summary) **2005k:11213**
Gaál, István Power integer bases in algebraic number fields. (English summary) **2005m:11195**
Harper, Malcolm $\mathbb{Z}[\sqrt{14}]$ is Euclidean. (English summary) **2005f:11236**
Ichimura, Humio On a theorem of Kawamoto on normal bases of rings of integers. **2005m:11196**
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Loher, Thomas (*with* Masser, D. W.) Uniformly counting points of bounded height. **2005a:11162**
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Olajos, Péter Power integral bases in orders of composite fields. II. **2005g:11202**
— Power integral bases in composite fields. (English summary) **2005j:11075**
Pethő, Attila Connections between power integral bases and radix representations in algebraic number fields. **2005m:11197**
Poonen, Bjorn *see* **Berry, Neil et al., 2005h:11238**
Rhin, Georges (*with* Wu, Qiang^5) On the absolute Mahler measure of polynomials having all zeros in a sector. II. (English summary) **2005e:11134**
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Smyth, C. J. *see* **Dubickas, Artūras, 2005a:11160** *and* **Berry, Neil et al., 2005h:11238**
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Bakker, Lennard F. Quasiperiodic flows and algebraic number fields. (English summary) **2005j:37032**
Bhargava, Manjul Gauss composition and generalizations. (English summary) **2005d:11051**
Bilu, Yu. F. (*with* Gaál, István; Győry, Kálmán) Index form equations in sextic fields: a hard computation. **2005f:11047**
Browkin, Jerzy (*with* Brzezinski, Juliusz) Separable free quadratic algebras over quadratic integers. (English summary) **2005h:16024**
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Francini, Paolo The size function h° for a pure cubic field. **2005f:11241**
Gaál, István *see* **Bilu, Yu. F. et al., 2005f:11047**
Gröger, Detlef On a special kind of homomorphism defined on the multiplicative group of an algebraic number field. (English summary) **2005b:12015**
Győry, Kálmán *see* **Bilu, Yu. F. et al., 2005f:11047**
Harper, Malcolm (*with* Murty, Maruti Ram) Euclidean rings of algebraic integers. (English summary) **2005h:11261**
Hassler, Wolfgang Criteria for direct-sum cancellation, with an application to negative quadratic orders. **2005h:13015**
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Mollin, Richard A. When the central norm equals 2 in the simple continued fraction expansion of a quadratic surd. (English and French summaries) **2005a:11009**
Motoda, Yasuo (*with* Nakahara, Toru) Monogenesis of algebraic number fields whose Galois groups are 2-elementary abelian. (English summary) **2005i:11161**
Murty, Maruti Ram *see* **Harper, Malcolm, 2005h:11261**

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Zaïmi, Toufik On the integer form of the additive Hilbert's Theorem 90. (English summary) 2005f:11254

11R06 PV-numbers and generalizations; other special algebraic numbers

Boughzala, Sana Mesure de Mahler et polylogarithmes. (English and French summaries) [Mahler measure and polylogarithms] 2005a:11163
Dubickas, Artūras Mahler measures generate the largest possible groups. (English summary) 2005i:11149
— On numbers which are Mahler measures. (English summary) 2005a:11164
Hare, Kevin G. The structure of the spectra of Pisot numbers. (English summary) 2005b:11168
Ito, Shunji (*with* Rao, Hui) Purely periodic β-expansions with Pisot unit base. (English summary) 2005m:11198
Mahmood, Arshad *see* **Mushtaq, Qaiser**, 2005b:11169
McKee, James (*with* Smyth, C. J.) There are Salem numbers of every trace. (English summary) 2005g:11203
Mushtaq, Qaiser (*with* Mahmood, Arshad) A note on Salem numbers and golden mean. (English summary) 2005b:11169
Rao, Hui *see* **Ito, Shunji**, 2005m:11198
Smyth, C. J. *see* **McKee, James**, 2005g:11203

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— (*with* Tanigawa, Yoshio) Salem numbers and uniform distribution modulo. I. (English summary) 2005f:11153
— Symbolic dynamics systems and number system tilings. (Japanese. Japanese summary) 2005h:37020
Broomhead, D. S. (*with* Montaldi, James; Sidorov, Nikita) Golden gaskets: variations on the Sierpiński sieve. (English summary) 2005g:28012
Corvaja, Pietro (*with* Zannier, Umberto M.) On the rational approximations to the powers of an algebraic number: solution of two problems of Mahler and Mendès France. 2005m:11131
Dubickas, Artūras Nonreciprocal algebraic numbers of small measure. (English summary) 2005h:11244
Dubois, Eugène (*with* Farhane, Ahmed; Paysant-Le Roux, Roger) The Jacobi-Perron algorithm and Pisot numbers. 2005a:11105
Elkharrat, Avi (*with* Frougny, Christiane; Gazeau, Jean-Pierre; Verger-Gaugry, Jean-Louis) Symmetry groups for beta-lattices. (English summary) 2005i:52028
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Feng, De-Jun (*with* Wang, Yang[3]) Bernoulli convolutions associated with certain non-Pisot numbers. (English summary) 2005h:60132
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Frougny, Christiane *see* **Elkharrat, Avi et al.**, 2005i:52028
Gazeau, Jean-Pierre *see* **Elkharrat, Avi et al.**, 2005i:52028
Gjini, Nertila Beta-expansion of 1 for quartic Pisot units. (English summary) 2005b:11116
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Paysant-Le Roux, Roger *see* **Dubois, Eugène et al.**, 2005a:11105
Rao, Hui *see* **Akiyama, Shigeki et al.**, 2005g:11135
Sidorov, Nikita *see* **Broomhead, D. S. et al.**, 2005g:28012
Steiner, Wolfgang *see* **Akiyama, Shigeki et al.**, 2005g:11135
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Verger-Gaugry, Jean-Louis *see* **Elkharrat, Avi et al.**, 2005i:52028
Wang, Yang[3] *see* **Feng, De-Jun**, 2005h:60132 *and* 2005h:60133
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11R09 Polynomials (irreducibility, etc.)

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Choi, Geumlan (*with* Zaharescu, Alexandru) Numerical polynomials in several variables with few nonzero terms. (English summary) 2005h:11243
Dubickas, Artūras Nonreciprocal algebraic numbers of small measure. (English summary) 2005h:11244
Filaseta, Michael (*with* Matthews, Manton, Jr.) On the irreducibility of 0, 1-polynomials of the form $f(x)x^n + g(x)$. (English summary) 2005g:11205
Kurokawa, Nobushige A q-Mahler measure. (English summary) 2005b:11170
Magidin Viso, Arturo (*with* McKinnon, David) Gauss's lemma for number fields. 2005m:11199
Matthews, Manton, Jr. *see* **Filaseta, Michael**, 2005g:11205
McKinnon, David *see* **Magidin Viso, Arturo**, 2005m:11199
Pezda, T. Cycles of polynomial mappings in two variables over rings of integers in quadratic fields. (English summary) 2005m:11200
Rhin, Georges (*with* Sac-Épée, J.-M.) New methods providing high degree polynomials with small Mahler measure. (English summary) 2005a:11165
Rodriguez-Villegas, Fernando (*with* Toledano, Ricardo; Vaaler, Jeffrey D.) Estimates for Mahler's measure of a linear form. (English summary) 2005f:11237
Sac-Épée, J.-M. *see* **Rhin, Georges**, 2005a:11165
Sell, Elizabeth A. On a certain family of generalized Laguerre polynomials. (English summary) 2005m:11201
Toledano, Ricardo *see* **Rodriguez-Villegas, Fernando et al.**, 2005f:11237
Vaaler, Jeffrey D. *see* **Rodriguez-Villegas, Fernando et al.**, 2005f:11237
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Gon, Yasuro (*with* Oyanagi, Hideo) Generalized Mahler measures and multiple sine functions. (English summary) 2005h:11185
Lind, Douglas Multi-dimensional symbolic dynamics. 2005f:37038
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Oyanagi, Hideo *see* **Gon, Yasuro**, 2005h:11185
Rhin, Georges A generalization of a theorem of Schinzel. (English summary) 2005h:11060
— (*with* Wu, Qiang[5]) On the absolute Mahler measure of polynomials having all zeros in a sector. II. (English summary) 2005e:11134
Smyth, C. J. *see* **Dubickas, Artūras**, 2005a:11160
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11R11 Quadratic extensions

Belabas, Karim On quadratic fields with large 3-rank. (English summary) 2005c:11132
Delong, Matt Using elliptic curves to produce quadratic number fields of high three-rank. (English summary) 2005e:11135
Farkas, Gábor *see* **Kovács, Attila**, 2005d:11153
Gica, Alexandru A statement equivalent to a theorem of Gauss. (English summary) 2005g:11206
Husnine, Syed Muhammad (*with* Kousar, Imrana) A classification of the elements of $Q^*(\sqrt{n})$ and a partition of $Q^*(\sqrt{n})$ under the action of modular group. (English summary)
Kaplan, Pierre (*with* Williams, Kenneth S.) On the number of representations of a positive integer by a binary quadratic form. 2005c:11133
Kimura, Iwao Correction to: "A note on the existence of certain infinite families of imaginary quadratic fields" [Acta. Arith. **110** (2003), no. 1, 37–43; MR2007542 (2004i:11129)]. 2005g:11207
Kousar, Imrana *see* **Husnine, Syed Muhammad**
Kovács, Attila (*with* Farkas, Gábor) Canonical expansions of integers in real quadratic fields. (English summary) 2005d:11153
Mollin, Richard A. Class numbers, quadratics, and exponential Diophantine equations. (English summary) 2005m:11202
Patterson, Roger D. (*with* van der Poorten, Alfred J.) Jeepers, creepers, ... (English summary) 2005g:11208
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Schlage-Puchta, Jan-Christoph Finiteness of a class of Rabinowitsch polynomials. (English summary) 2005h:11245
Shen, Li-Chien On a class of elliptic functions associated with imaginary quadratic fields. (English summary) 2005f:11238
Širola, B. Class number one quadratic fields and solvability of some Pellian equations. (English summary) 2005f:11239
Williams, Kenneth S. *see* **Kaplan, Pierre**, 2005c:11133
Yamamura, Ken On quadratic number fields each having an unramified extension which properly contains the Hilbert class field of its genus field. 2005f:11240
Yang, Dong (*with* Zhang, Xian Ke) Quadratic number fields with class numbers divisible by a prime q. (English summary) 2005g:11209
Zhang, Xian Ke *see* **Yang, Dong**, 2005g:11209

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Ashrafi, Nahid (*with* Vámos, Peter) On the unit sum number of some rings. (English summary) 2005k:11220
Basilla, Julius Magalona The quadratic fields with discriminant divisible by exactly two primes and with "narrow" class number divisible by 8. (English summary) 2005i:11155
— (*with* Wada, Hideo) On efficient computation of the 2-parts of ideal class groups of quadratic fields. (English summary) 2005i:11156
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Bhargava, Manjul Higher composition laws. I. A new view on Gauss composition, and quadratic generalizations. 2005f:11062a
Biró, András On the class number one problem for some special real quadratic fields. 2005i:11157
Brillhart, John (*with* Morton, Patrick) Class numbers of quadratic fields, Hasse invariants of elliptic curves, and the supersingular polynomial. (English summary) 2005k:11222
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Brzezinski, Juliusz *see* **Browkin, Jerzy**, 2005h:16024
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Cao, Zhen Fu The divisibility of the class number of imaginary quadratic fields. (Chinese. English and Chinese summaries) 2005e:11144
Corson, Daniel (*with* Favero, David; Liesinger, Kate; Zubairy, Sarah) Characters and q-series in $\mathbb{Q}(\sqrt{2})$. (English summary) 2005c:11126
Dorfer, Gerhard (*with* Tichy, Robert F.) Quadratic algebraic numbers with finite b-adic expansion on the unit circle and their distribution. (English summary) 2005g:11047
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Harper, Malcolm $\mathbb{Z}[\sqrt{14}]$ is Euclidean. (English summary) **2005f:11236**
Hashimoto, Ryūta Ankeny-Artin-Chowla conjecture and continued fraction expansions. **2005i:11158**
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Liesinger, Kate *see* **Corson, Daniel et al., 2005c:11126**
Lovejoy, Jeremy Overpartitions and real quadratic fields. (English summary) **2005b:11164**
Mollin, Richard A. (*with* Goddard, B.) A description of continued fraction expansions of quadratic surds represented by polynomials. (English summary) **2005h:11016**
— Infinitely many quadratic Diophantine equations solvable everywhere locally, but not solvable globally. (English summary) **2005g:11040**
— Eisenstein equations and central norms. (English summary) **2005m:11042**
Morain, François *see* **Enge, Andreas, 2005a:11179**
Morton, Patrick *see* **Brillhart, John, 2005k:11222**
Motoda, Yasuo (*with* Nakahara, Toru) Power integral bases in algebraic number fields whose Galois groups are 2-elementary abelian. (English summary) **2005h:11249**
Nakahara, Toru *see* **Motoda, Yasuo, 2005h:11249**
Qin, Hou Rong The structure of the tame kernels of quadratic number fields. I. **2005d:11161**
Sato, Hiroki[2] On class number formulas for the real quadratic fields. (English summary) **2005e:11146**
Skałba, Mariusz Towards Bauer's theorem for linear recurrence sequences. (English summary) **2005a:11006**
Soriano-Gafiuk, Florence *see* **Dubois, E., 2005h:11255**
Sueyoshi, Yutaka Infinite 2-class field towers of some imaginary quadratic number fields. **2005i:11165**
Szabó, Sándor The Diophantine equation $x^4 - y^4 = z^2$ in three quadratic fields. (English summary) **2005i:11033**
Tichy, Robert F. *see* **Dorfer, Gerhard, 2005g:11047**
Vámos, Peter *see* **Ashrafi, Nahid, 2005k:11220**
Vollmer, Ulrich An accelerated Buchmann algorithm for regulator computation in real quadratic fields. (English summary) **2005d:11184**
Wada, Hideo *see* **Basilla, Julius Magalona, 2005i:11156**
Watkins, Mark J. Class numbers of imaginary quadratic fields. (English summary) **2005a:11175**
Williams, Kenneth S. *see* **Evans, Ronald J. et al., 2005a:11172**
Yuan, Ping Zhi A conjecture on Euler numbers. (English summary) **2005f:11030**
Zubairy, Sarah *see* **Corson, Daniel et al., 2005c:11126**

11R16 Cubic and quartic extensions

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— (*with* Spearman, Blair K.; Williams, Kenneth S.) The factorization of 2 in cubic fields with index 2. (English summary) **2005h:11246**
— (*with* Williams, Kenneth S.) On Voronoi's method for finding an integral basis of a cubic field. (English summary) **2005a:11166**
Azizi, Abdelmalek Correction: "Fields $\mathbf{Q}(\sqrt{-p_0}, \sqrt{d})$ with Klein 2-class groups, with $p_0 \equiv 1 \pmod 4$ prime" [Rend. Istit. Mat. Univ. Trieste **31** (1999), no. 1-2, 1–24; MR1763239 (2001c:11118)] by Azizi and R. Lamjoun. (French. French summary)
Bhargava, Manjul Higher composition laws. III. The parametrization of quartic rings. (English summary) **2005k:11214**
Cohen, Henri Counting A_4 and S_4 number fields with given resolvent cubic. (English summary) **2005e:11136**
Francini, Paolo The size function h° for a pure cubic field. **2005f:11241**
Katayama, Shin-ichi (*with* Levesque, Claude; Nakahara, Toru) On a family of real bicyclic biquadratic fields. (English summary) **2005g:11210**
(Lamjoun, R.) *see* **Azizi, Abdelmalek**
Levesque, Claude *see* **Katayama, Shin-ichi et al., 2005g:11210**
Louboutin, Stéphane R. The simplest quartic fields with ideal class groups of exponents less than or equal to 2. (English summary) **2005e:11137**
Maeda, Hironobu On the ring of integers of Dedekind's cubic field. (Japanese) **2005k:11215**
Minemura, Kenji On totally real cubic orders whose unit groups are of type $\langle a\theta + b, c\theta + d\rangle$. **2005h:11247**
Nakahara, Toru *see* **Katayama, Shin-ichi et al., 2005g:11210**
Spearman, Blair K. (*with* Williams, Kenneth S.) On the Lagrange resolvents of a dihedral quintic polynomial. (English summary) **2005m:11203**
— (*with* Williams, Kenneth S.) The proportion of cyclic quartic fields with discriminant divisible by a given prime. (English summary) **2005i:11150**
— *see also* **Alaca, Şaban et al., 2005h:11246**
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Ashrafi, Nahid (*with* Vámos, Peter) On the unit sum number of some rings. (English summary) **2005k:11220**
Belabas, Karim On quadratic fields with large 3-rank. (English summary) **2005c:11132**
Bhargava, Manjul Higher composition laws. II. On cubic analogues of Gauss composition. **2005f:11062b**
Browkin, Jerzy Tame kernels of cubic cyclic fields. (English summary) **2005j:11079**
Brunotte, Horst On cubic CNS polynomials with three real roots. (English summary) **2005h:11055**
Dummit, David S. (*with* Tangedal, Brett A.; van Wamelen, Paul B.) Stark's conjecture over complex cubic number fields. (English summary) **2005b:11181**
Gaál, István Power integer bases in algebraic number fields. (English summary) **2005m:11195**
Hernández, Santos (*with* Luca, Florian) Divisibility of exponents of class groups of pure cubic number fields. (English summary) **2005e:11145**
Kim, Hyun Kwang Evaluation of zeta functions at $s = -1$ of the simplest quartic fields. **2005j:11077**
Luca, Florian *see* **Hernández, Santos, 2005e:11145**
Mazur, Marcin (*with* Ullom, Stephen V.) Galois module structure of units in real biquadratic number fields. **2005b:11178**
Tangedal, Brett A. *see* **Dummit, David S. et al., 2005b:11181**
Ullom, Stephen V. *see* **Mazur, Marcin, 2005b:11178**
Vámos, Peter *see* **Ashrafi, Nahid, 2005k:11220**
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Weng, Annegret Extensions and improvements for the CM method for genus two. (English summary) **2005g:11105**

11R18 Cyclotomic extensions

Boulanger, Jacques (*with* Chabert, Jean-Luc) On the representation of integers as linear combinations of consecutive values of a polynomial. (English summary) **2005d:11154**
Chabert, Jean-Luc *see* **Boulanger, Jacques, 2005d:11154**
Dantas Lopes, José Othon The discriminant of subfields of $\mathbb{Q}(\zeta_{2^r})$. (English summary) **2005a:11167**
Endô, A. A generalization of the Maillet determinant and the Demyanenko matrix. (English summary) **2005a:11168**
Künzer, Matthias (*with* Weber, H.) On the cyclotomic Dedekind embedding and the cyclic Wedderburn embedding. (English summary) **2005e:11138**
Louboutin, Stéphane R. Class numbers of real cyclotomic fields. (English summary) **2005b:11172**
Miller-Sims, Laurel (*with* Robertson, Leanne) Power integral bases for real cyclotomic fields. (English summary) **2005m:11204**
Robertson, Leanne *see* **Miller-Sims, Laurel, 2005m:11204**
Thaine, F. Cyclic polynomials and the multiplication matrices of their roots. (English summary) **2005a:11169**
Uher, Zbyněk Essential Kummer's vectors. (English summary) **2005f:11242**
Weber, H. *see* **Künzer, Matthias, 2005e:11138**

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Dong, Xue Dong (*with* Soh, Cheong Boon; Gunawan, Erry) On codes from cyclotomic fields for multidimensional signals. (English summary) **2005j:94036**
Dowker, J. S. Determinants on lens spaces and cyclotomic units. (English summary) **2005m:58068**
Gajda, Wojciech On $K_*(\mathbb{Z})$ and classical conjectures in the arithmetic of cyclotomic fields. (English summary) **2005d:19004**
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Koz'minykh, E. Computation of the class number of a cyclotomic field. (Russian. English and Russian summaries) **2005g:11215**
Kurihara, Masato Remarks on the λ_p-invariants of cyclic fields of degree p. **2005k:11218**
Louboutin, Stéphane R. Efficient computation of class numbers of real abelian number fields. (English summary) **2005d:11182**
Mazur, Barry C. (*with* Rubin, Karl) Introduction to Kolyvagin systems. **2005g:11217**
Mihăilescu, Preda Primary cyclotomic units and a proof of Catalan's conjecture. (English summary) **2005f:11051**
Motose, Kaoru On values of cyclotomic polynomials. VII. **2005d:11172**
Nguyễn-Quang-Đỗ, Thống *see* **Belliard, Jean-Robert, 2005m:11207**
Pomerance, Carl *see* **Buhler, Joe et al., 2005e:11143**
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Rubin, Karl *see* **Mazur, Barry C., 2005g:11217**
Schoof, René Abelian varieties over cyclotomic fields with good reduction everywhere. (English summary) **2005b:11076**
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Thangadurai, R. Adams theorem on Bernoulli numbers revisited. (English summary) **2005b:11022**

11R20 Other abelian and metabelian extensions

Asimi, Ahmed (*with* Lbekkouri, Aboubakr) Le groupe des unités d'un corps cyclotomi-quadratique. (French summary) [Unit group of a cyclotomic-quadratic field] **2005e:11139**
Frei, Günther On the history of the Artin reciprocity law in abelian extensions of algebraic number fields: how Artin was led to his reciprocity law. **2005i:11151**
Gao, En Wei *see* **Zhang, Jin Xia, 2005g:11211**
Kostra, J. (*with* Vavroš, M.) On transformation matrices connected to normal bases in rings. (English summary) **2005k:11216**
Lbekkouri, Aboubakr *see* **Asimi, Ahmed, 2005e:11139**
Skałba, Mariusz On alternatives of polynomial congruences. (English summary) **2005f:11243**
Vavroš, M. *see* **Kostra, J., 2005k:11216**

Zhang, Jin Xia (*with* Gao, En Wei) Decomposition of prime ideal (p) in $\mathbf{Q}(\mu^{l/l^m})$. (Chinese. English and Chinese summaries) **2005g:11211**

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Aoki, Noboru On the generalized Gross-Tate conjecture for elementary abelian 2-extensions. **2005a:11180**
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11R27 Units and factorization

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11R29 Class numbers, class groups, discriminants

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11R44 Distribution of prime ideals [see also 11N05]

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11R45 Density theorems

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11R47 Other analytic theory [see also 11Nxx]

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11R52 Quaternion and other division algebras: arithmetic, zeta functions

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11R54 Other algebras and orders, and their zeta and L-functions [see also 11S45, 16H05, 16Kxx]

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11R56 Adèle rings and groups

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11R58 Arithmetic theory of algebraic function fields [see also 14–XX]

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11R60 Cyclotomic function fields (class groups, Bernoulli objects, etc.)

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11R65 Class groups and Picard groups of orders

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11R70 K-theory of global fields [see also 19Fxx]

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11R80 Totally real and totally positive fields [see also 12J15]

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11R99 None of the above, but in this section

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11Sxx Algebraic number theory: local and p-adic fields

11S05 Polynomials

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11S15 Ramification and extension theory

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Abrashkin, V. A. An analogue of Grothendieck's conjecture for two-dimensional local fields of finite characteristic. (Russian. Russian summary) **2005a:11184**
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Svensson, Per-Anders Dynamical systems in unramified or totally ramified extensions of the p-adic number field. (English summary) **2005b:11190**
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Moreno, Carlos Julio (*with* Wan, Aaron) Unusual applications of quadratic Gaussian sums. (English summary) **2005d:11124**
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11S20 Galois theory

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Schmid, Peter Paul *see* **Kölle, Michael, 2005m:11219**

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11S23 Integral representations

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Vasiu, Adrian Surjectivity criteria for p-adic representations. I. (English summary) **2005e:11157**
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Zhang, Shaowei On a trivial zero problem. (English summary) **2005g:11213**

11S25 Galois cohomology [see also 12Gxx, 16H05]

Berger, Laurent Bloch and Kato's exponential map: three explicit formulas. (English summary) **2005f:11268**
— An introduction to the theory of p-adic representations. (English and French summaries) **2005h:11265**
Hesselholt, Lars Galois cohomology of Witt vectors of algebraic integers. **2005h:11266**

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11S31 Class field theory; p-adic formal groups [see also 14L05]

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Underwood, Robert Gene *see* **Childs, Lindsay N., 2005k:16079**

11S37 Langlands-Weil conjectures, nonabelian class field theory [see also 11Fxx, 22E50]

Frederiksen, Peder (*with* Kiming, Ian) Galois representations of dihedral type over $\mathbb{Q}_p$. **2005a:11185**
Jiang, Dihua (*with* Soudry, David) The local converse theorem for $\mathrm{SO}(2n+1)$ and applications. (English summary) **2005b:11193**
— (*with* Soudry, David) Generic representations and local Langlands reciprocity law for p-adic SO_{2n+1}. **2005f:11272**
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Kim, Henry H. Automorphic L-functions. (*see* **2005h:11104**)
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11S40 Zeta functions and L-functions [see also 11M41, 19F27]

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Fesenko, Ivan Analysis on arithmetic schemes. I. (English summary) **2005a:11186**
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Jang, Lee-Chae *see* **Han, Jung-Hun et al., 2005e:11159**
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Kim, Henry H. (*with* Lee, Kyu-Hwan) Spherical Hecke algebras of SL_2 over 2-dimensional local fields. (English summary) **2005k:22025**
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Pak, Hong Kyung *see* **Kim, Taekyun et al., 2005c:11022**
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Saito, Hiroshi[1] Convergence of the zeta functions of prehomogeneous vector spaces. (English summary) **2005d:11170**
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Solomon, David Robert Abelian conjectures of Stark type in $\mathbb{Z}_p$-extensions of totally real fields. (English summary) **2005h:11253**
— *see also* **Roblot, Xavier-François, 2005d:11160**
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11S45 Algebras and orders, and their zeta functions [see also 11R52, 11R54, 16H05, 16Kxx]

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Ribenboim, Paulo Fermat's equation for matrices or quaternions over q-adic fields. **2005d:11049**
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11S70 K-theory of local fields [see also 19Fxx]

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Cui, Ming Gen (*with* Zhang, Yanying) The Heisenberg uncertainty relation in harmonic analysis on p-adic numbers field. (English summary) **2005m:11224**
Jang, Lee-Chae (*with* Kim, Taekyun; Rim, Seog Hoon) A note on p-adic Euler integrals. (English summary) **2005b:11194**
— (*with* Kim, Jong Heon; Kim, Taekyun; Lee, Deok-Ho; Park, Dal-Won; Ryoo, Cheon Seoung) On Witt's formula for the Barnes' multiple Bernoulli polynomials. (English summary) **2005f:11273**
— (*with* Park, Dal-Won; Kim, Taekyun; Ryoo, Cheon Seoung) A simple proof of q-zeta function. (English summary) **2005g:11238**
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— q-Riemann zeta function. (English summary) **2005d:11167**
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Kurt, Veli *see* **Cenkci, Mehmet et al., 2005k:11230**
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Le Thi Hoai Thu Integral representation of p-adic functions. (English summary) **2005g:11240**
Park, Dal-Won *see* **Jang, Lee-Chae et al., 2005f:11273** *and* **2005g:11238**
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11Txx Finite fields and commutative rings (number-theoretic aspects)

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11T24 Other character sums and Gauss sums

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11T30 Structure theory

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11T60 Finite upper half-planes

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11U05 Decidability [see also 03B25]

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11U09 Model theory [see also 03Cxx]

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11Yxx Computational number theory [see also 11–04]

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11Y05 Factorization

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11Y11 Primality

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Browkin, Jerzy Erratum: "Some new kinds of pseudoprimes" [Math. Comp. **73** (2004), no. 246, 1031–1037 (electronic); MR2031424 (2004m:11006)].
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11Y16 Algorithms; complexity [see also 68Q25]

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11Y55 Calculation of integer sequences

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11Y70 Values of arithmetic functions; tables

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11Z05 Miscellaneous applications of number theory

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— (*with* Kawano, Teruhiko) Towards p-adic string in constant B-field. (English summary) **2005k:81228**
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Vladimirov, V. S. (*with* Volovich, Yaroslav) On a nonlinear equation of dynamics in p-adic string theory. (Russian. Russian summary) **2005d:81241**
— Adelic formulas for four-particle tree string and superstring amplitudes in class number one quadratic fields. (Russian. Russian summary) **2005i:81147**
Volovich, Yaroslav Properties of equations of dynamics in p-adic string and string field models. (Russian. Russian summary) **2005f:81206**
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12–XX Field theory and polynomials

12–01 Instructional exposition (textbooks, tutorial papers, etc.)

Bewersdorff, Jörg ★ Algebra für Einsteiger. (German) [Algebra for beginners]
Chambert-Loir, Antoine ★ A field guide to algebra. **2005h:12001**
Swallow, John ★ Exploratory Galois theory. **2005h:12002**

Items with secondary classifications in 12–01

Anderson, Marlow (*with* Feil, Todd) ★ A first course in abstract algebra.
Edwards, Harold M. ★ Essays in constructive mathematics. (English summary) **2005h:00010**
Feil, Todd *see* **Anderson, Marlow**
Grove, Larry C. ★ Algebra. **2005g:00002**
Lanski, Charles ★ Concepts in abstract algebra. **2005g:00004**
Wickless, William ★ A first graduate course in abstract algebra. **2005c:00001**

12–02 Research exposition (monographs, survey articles)

(Leĭtes, D. A.) *see* **Prasolov, Viktor Vasil'evich, 2005f:12001**
Prasolov, Viktor Vasil'evich ★ Polynomials. **2005f:12001**

12–03 Historical (must also be assigned at least one classification number from Section 01)

Petri, Birgit (*with* Schappacher, Norbert) From Abel to Kronecker: episodes from 19th century algebra. **2005e:12001**
Schappacher, Norbert *see* **Petri, Birgit, 2005e:12001**

Items with secondary classifications in 12–03

Baltus, Christopher D'Alembert's proof of the fundamental theorem of algebra. (English and French summaries) **2005g:01019**
Lazard, Daniel Solving quintics by radicals. (English summary) **2005g:12002**

12–04 Explicit machine computation and programs (not the theory of computation or programming)

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Giorgi, Pascal *see* **Dumas, Jean-Guillaume et al., (2005i:68002)**
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Enge, Andreas (*with* Morain, François) Fast decomposition of polynomials with known Galois group. (English summary) **2005b:12007**
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12–06 Proceedings, conferences, collections, etc.

Items with secondary classifications in 12–06

(Adolphson, Alan) *see* **Geometric aspects of Dwork theory. Vol. I, II, 2005f:00015**
(Baldassarri, Francesco) *see* **Geometric aspects of Dwork theory. Vol. I, II, 2005f:00015**
(Berthelot, Pierre) *see* **Geometric aspects of Dwork theory. Vol. I, II, 2005f:00015**
(Dwork, Bernard) *see* **Geometric aspects of Dwork theory. Vol. I, II, 2005f:00015**
(Katz, Nicholas M.) *see* **Geometric aspects of Dwork theory. Vol. I, II, 2005f:00015**
(Loday-Richaud, Michèle) *see* **Complex analysis, dynamical systems, summability of divergent series and Galois theories. I**
(Loeser, François) *see* **Geometric aspects of Dwork theory. Vol. I, II, 2005f:00015**
(Ramis, Jean-Pierre) *see* **Complex analysis, dynamical systems, summability of divergent series and Galois theories. I**

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Analyse complexe, systèmes dynamiques, sommabilité des séries divergentes et théories galoisiennes. I ★ Analyse complexe, systèmes dynamiques, sommabilité des séries divergentes et théories galoisiennes. I. (English and French summaries) [Complex analysis, dynamical systems, summability of divergent series and Galois theories. I]
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Geometric aspects of Dwork theory. Vol. I, II ★ Geometric aspects of Dwork theory. Vol. I, II. **2005f:00015**
Padova ★ Geometric aspects of Dwork theory. Vol. I, II. **2005f:00015**
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12Dxx Real and complex fields

12D05 Polynomials: factorization

Panaitopol, Laurenţiu (*with* Ştefănescu, Doru) New inequalities on polynomial divisors. (English summary) **2005h:12003**
Ştefănescu, Doru *see* **Panaitopol, Laurenţiu, 2005h:12003**

Items with secondary classifications in 12D05

Brown, J. I. (*with* Nowakowski, Richard) Average independence polynomials. (English summary) **2005i:05132**
Corless, Robert M. (*with* Watt, Stephen M.; Zhi, Lihong) *QR* factoring to compute the GCD of univariate approximate polynomials. (English summary) **2005i:65064**
Dorninger, Dietmar (*with* Länger, Helmut) Factors of Chebyshev polynomials related to molecular graphs. (English summary) **2005c:05135**
Länger, Helmut *see* **Dorninger, Dietmar, 2005c:05135**
Laohakosol, Vichian *see* **Phuksuwan, Ouamporn et al., 2005m:11147**
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Phuksuwan, Ouamporn (*with* Udomkavanich, Patanee; Laohakosol, Vichian) An analysis of Ritt's factorization for exponential sums. (English summary) **2005m:11147**
Prasolov, Viktor Vasil'evich ★ Polynomials. **2005f:12001**
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12D10 Polynomials: location of zeros (algebraic theorems) {For the analytic theory, see 26C10, 30C15.}

Brändén, Petter On operators on polynomials preserving real-rootedness and the Neggers-Stanley conjecture. (English summary) **2005h:12004**
Chipalkatti, Jaydeep V. Invariant equations defining coincident root loci. (English summary) **2005g:12001**
Jain, Vinay Kumar Generalization of a result on the roots of a trinomial equation. (English summary)
Kalantari, Bahman On homogeneous linear recurrence relations and approximation of zeros of complex polynomials. (English summary) **2005d:12001**
Konvalina, John (*with* Matache, Valentin) Palindrome-polynomials with roots on the unit circle. (English and French summaries) **2005b:12001**
Kostov, Vladimir Petrov Overdetermined strata in general families of polynomials. (English summary) **2005d:12002**
Matache, Valentin *see* **Konvalina, John, 2005b:12001**
Rojas, J. Maurice (*with* Ye, Yinyu) On solving univariate sparse polynomials in logarithmic time. (English summary) **2005m:12001**
Romik, Dan Roots of the derivative of a polynomial.
Rouillier, Fabrice (*with* Zimmermann, Paul) Efficient isolation of polynomial's real roots. (English summary) **2005b:12002**
Santos, José Carlos de Sousa Oliveira Another proof of the fundamental theorem of algebra.
Výborný, Rudolf Casus irreducibilis and *Maple*. (English summary)
Xia, Bi Can (*with* Yang, Lu[1]) A new result on the p-irreducibility of binding polynomials. (English summary)
Yang, Lu[1] *see* **Xia, Bi Can**
Ye, Yinyu *see* **Rojas, J. Maurice, 2005m:12001**
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Items with secondary classifications in 12D10

Bugeaud, Yann Mahler's classification of numbers compared with Koksma's. III. (English summary) **2005h:11145**
Deo, Narsingh *see* **Litow, Bruce, 2005k:68043**
Díaz-Barrero, José Luis (*with* Egozcue, Juan José) Characterization of polynomials using reflection coefficients. (English summary) **2005e:30006**
Edwards, Stephanie (*with* Gordon, Russell A.) Extreme curvature of polynomials. **2005h:53002**
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Gordon, Russell A. *see* **Edwards, Stephanie, 2005h:53002**
Greiner, Richard Necessary conditions for Schur-stability of interval polynomials. (English summary) **2005c:93068**
Hong, Hoon Note on Jacobi's method for approximating dominant roots. (English summary) **2005g:65078**
Kalantari, Bahman An infinite family of bounds on zeros of analytic functions and relationship to Smale's bound. (English summary) **2005k:65093**
Kozlov, Dmitry N. Directed trees in a string, real polynomials with triple roots, and chain mails. (English summary) **2005h:57004**
Lakatos, Piroska (*with* Losonczi, László) On zeros of reciprocal polynomials of odd degree. (English summary) **2005a:30009**
(Leĭtes, D. A.) *see* **Prasolov, Viktor Vasil'evich, 2005f:12001**
Litow, Bruce (*with* Deo, Narsingh) Graph compression and the zeros of polynomials. (English summary) **2005k:68043**
Losonczi, László *see* **Lakatos, Piroska, 2005a:30009**
Nedzhibov, Gyurhan H. (*with* Petkov, Milko G.) On a family of iterative methods for simultaneous extraction of all roots of algebraic polynomial. (English summary) **2005i:65075**
Panaitopol, Laurenţiu (*with* Ştefănescu, Doru) New inequalities on polynomial divisors. (English summary) **2005h:12003**
Petkov, Milko G. *see* **Nedzhibov, Gyurhan H., 2005i:65075**
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Zeng, Zhonggang A method computing multiple roots of inexact polynomials. (English summary) **2005d:65080**

12D15 Fields related with sums of squares (formally real fields, Pythagorean fields, etc.) [see also 11Exx]

Colliot-Thélène, Jean-Louis Eine Bemerkung zu einem Satz von E. Becker und D. Gondard. [A remark on a theorem of E. Becker and D. Gondard] **2005k:12001**

Items with secondary classifications in 12D15

Cimprič, Jaka Valuation theory of higher level $*$-signatures. (English summary) **2005d:16076**
Engler, Antonio José π-Henselianity: a new approach. (English and Portuguese summaries) **2005a:13048**
Pfister, Albrecht On Hilbert's theorem about ternary quartics. (English summary) **2005f:11058**
Redfield, R. H. Surveying lattice-ordered fields. (English summary) **2005h:12016**
Sankaran, N. Orders, valuations and quadratic forms. (English summary) **2005i:11054**
Shelah, Saharon Quite complete real closed fields. (English summary) **2005k:12009**

12D99 None of the above, but in this section

Items with secondary classifications in 12D99

Brunotte, Horst On cubic CNS polynomials with three real roots. (English summary) **2005h:11055**
Sakamoto, Nobuyuki (*with* Tanaka, Kazuyuki[1]) The strong soundness theorem for real closed fields and Hilbert's Nullstellensatz in second order arithmetic. (English summary) **2005j:03011**
Tanaka, Kazuyuki[1] *see* **Sakamoto, Nobuyuki**, **2005j:03011**

12Exx General field theory

12E05 Polynomials (irreducibility, etc.)

Allen, Martha (*with* Filaseta, Michael) A generalization of a third irreducibility theorem of I. Schur. **2005b:12003**
Ayad, Mohamed Irreducibility of $f(u(x), v(y))$. (English summary) **2005d:12003**
Bonciocat, Anca Iuliana (*with* Zaharescu, Alexandru) Irreducibility results for compositions of polynomials in several variables. (English summary) **2005m:12002**
Filaseta, Michael *see* **Allen, Martha**, **2005b:12003**
Jensen, C. U. On the number of real roots of a solvable polynomial. **2005i:12001**
— Solvability by real radicals and Fermat primes. (English summary) **2005a:12001**
Khanduja, Sudesh K. *see* **Singh, Amrit Pal**, **2005h:12005**
Lazard, Daniel Solving quintics by radicals. (English summary) **2005g:12002**
Najib, Salah Sur le spectre d'un polynôme à plusieurs variables. [Spectrum of a multivariate polynomial] **2005e:12002**
Singh, Amrit Pal (*with* Khanduja, Sudesh K.) An extension of the irreducibility criteria of Ehrenfeucht and Tverberg. (English summary) **2005h:12005**
Ta Thi Hoai An (*with* Wang, Julie Tzu-Yueh; Wong, Pit-Mann) Unique range sets and uniqueness polynomials in positive characteristic. II. **2005k:12002**
Wang, Julie Tzu-Yueh *see* **Ta Thi Hoai An et al.**, **2005k:12002**
Waterhouse, William C. Polynomials for the Jordan decomposition in characteristic p. (English summary) **2005e:12003**
Wong, Pit-Mann *see* **Ta Thi Hoai An et al.**, **2005k:12002**
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Zhi, Lihong Displacement structure in computing approximate GCD of univariate polynomials. (English summary) **2005a:12002**

Items with secondary classifications in 12E05

Bhatia, Saurabh (*with* Khanduja, Sudesh K.) On extensions generated by roots of lifting polynomials. (English summary) **2005c:12012**
Bluher, Antonia W. Explicit formulas for strong Davenport pairs. **2005b:12004**
Chang, Yaotsu (*with* Chou, Wun-Seng; Shiue, Peter J. S.) On the number of primitive polynomials over finite fields. (English summary) **2005i:11173**
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Etienne, Gwihen (*with* Las Vergnas, Michel) The Tutte polynomial of a morphism of matroids. III. Vectorial matroids. (English summary) **2005e:05023**
Filaseta, Michael (*with* Matthews, Manton, Jr.) On the irreducibility of 0, 1-polynomials of the form $f(x)x^n + g(x)$. (English summary) **2005g:11205**
Khanduja, Sudesh K. *see* **Bhatia, Saurabh**, **2005c:12012**
Konečná, Petra Polynomial orbits in direct sum of finite extension fields. (English summary) **2005h:11059**
Las Vergnas, Michel *see* **Etienne, Gwihen**, **2005e:05023**
Matthews, Manton, Jr. *see* **Filaseta, Michael**, **2005g:11205**
Panaitopol, Laurenţiu (*with* Ştefănescu, Doru) New inequalities on polynomial divisors. (English summary) **2005h:12003**
Schinzel, Andrzej On a decomposition of polynomials in several variables. (English and French summaries) **2005e:11031**
Shiue, Peter J. S. *see* **Chang, Yaotsu et al.**, **2005i:11173**
Ştefănescu, Doru *see* **Panaitopol, Laurenţiu**, **2005h:12003**
Šuch, Ondrej Using trace to identify irreducible quadratic polynomials. (English summary) **2005k:11235**
Walkowiak, Yann Théorème d'irréductibilité de Hilbert effectif. [An effective Hilbert irreducibility theorem] **2005j:12003**
Więsław, Witold Two Abel's theorems. (*see* **2005j:01002**)

12E10 Special polynomials

Bluher, Antonia W. Explicit formulas for strong Davenport pairs. **2005b:12004**
— On $x^{q+1} + ax + b$. (English summary) **2005b:12005**
Mochimaru, Yoshihiro Application of a Tschirnhausian transform to quartic equations. (English summary)
— Application of a quadratic type of a Tschirnhausian transform to quintic equations. (English summary) **2005h:12006**
Santos, José Carlos de Sousa Oliveira Möbius transformations and third-degree equations (Portuguese. English and Portuguese summaries)
Todorov, Pavel G. A representation of a nonnegative algebraic polynomial of degree four as a sum of two squares of real polynomials. (English summary) **2005j:12001**

Items with secondary classifications in 12E10

Abhyankar, Shreeram S. (*with* Inglis, Nicholas F. J.) Thoughts on symplectic groups and symplectic equations. (English summary) **2005e:12005**
Ball, Simeon (*with* Zieve, Michael E.) Symplectic spreads and permutation polynomials. (English summary) **2005f:51011**
Bărcănescu, Şerban Cyclotomic polynomials. **2005h:11272**
Brent, Richard P. (*with* Larvala, Samuli; Zimmermann, Paul) A primitive trinomial of degree 6972593. (English summary) **2005h:11054**
Inglis, Nicholas F. J. *see* **Abhyankar, Shreeram S.**, **2005e:12005**
Komatsu, Toru Arithmetic of Rikuna's generic cyclic polynomial and generalization of Kummer theory. (English summary) **2005h:11258**
Larvala, Samuli *see* **Brent, Richard P. et al.**, **2005h:11054**
Sharma, Anita (*with* Sharma, V. K.) Methods for solving cubic equations. (English summary)
Sharma, V. K. *see* **Sharma, Anita**
Simić, Slavko Appell polynomials and logarithmic convexity. (English summary) **2005h:33025**
Zhang, Qifan Witt rings and permutation polynomials. (English summary) **2005m:11229**
Zieve, Michael E. *see* **Ball, Simeon**, **2005f:51011**
Zimmermann, Paul *see* **Brent, Richard P. et al.**, **2005h:11054**

12E12 Equations

Topuridze, N. On the roots of polynomials over division algebras. (English summary) **2005a:12003**

Items with secondary classifications in 12E12

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12Fxx Field extensions

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12F15 Inseparable extensions

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12F20 Transcendental extensions

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12F99 None of the above, but in this section

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12Gxx Homological methods (field theory)

12G05 Galois cohomology [see also 14F22, 16H05, 16K50]

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12Hxx Differential and difference algebra

12H05 Differential algebra [see also 13Nxx]

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13–XX Commutative rings and algebras

13–01 Instructional exposition (textbooks, tutorial papers, etc.)

Li, Huishi ★ An introduction to commutative algebra. **2005j:13001**

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Anderson, Marlow (*with* Feil, Todd) ★ A first course in abstract algebra.
Badawi, Ayman ★ Abstract algebra manual: problems and solutions. **2005e:20001**
Cox, David A. (*with* Little, John B.; O'Shea, Donal B.) ★ Using algebraic geometry. **2005i:13037**
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13–02 Research exposition (monographs, survey articles)

Gilmer, Robert Forty years of commutative ring theory. **2005d:13001**
Hermida-Alonso, José A. On linear algebra over commutative rings. **2005g:13001**
Iyengar, Srikanth Modules and cohomology over group algebras: one commutative algebraist's perspective. (English summary) **2005m:13001**

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Eisenbud, David ★ The geometry of syzygies. **2005h:13021**

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13–06 Proceedings, conferences, collections, etc.

(Avramov, Luchezar L.) *see* **Trends in commutative algebra, 2005j:13002**
(Chapman, Scott T.) *see* **Arithmetical properties of commutative rings and monoids, 2005m:13002**
(Green, Mark Lee) *see* **Trends in commutative algebra, 2005j:13002**
(Huneke, Craig) *see* **Trends in commutative algebra, 2005j:13002**
(Smith, Karen E.) *see* **Trends in commutative algebra, 2005j:13002**
(Sturmfels, Bernd) *see* **Trends in commutative algebra, 2005j:13002**

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13Axx General commutative ring theory

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13A02 Graded rings [see also 16W50]

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Boulagouaz, M. Graded transcendental extensions of graded fields. (English summary) **2005a:13001**
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Zanello, Fabrizio Extending the idea of compressed algebra to arbitrary socle-vectors. II. Cases of non-existence. **2005d:13031**

13A05 Divisibility

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13A10 Radical theory

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13A15 Ideals; multiplicative ideal theory

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— (*with* Dumitrescu, Tiberiu) Half condensed domains. (English summary) **2005j:13004**
Andruszkiewicz, R. R. Metaideals in commutative rings. (English summary) **2005k:13003**
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Bhatwadekar, Shrikant M. (*with* Sharma, Pramod K.) Unique factorization and birth of almost primes. (English summary) **2005k:13004**
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— *see also* **Anderson, David F., 2005e:13030**
Barile, Margherita On the computation of arithmetical ranks. (English summary) **2005k:13002**
Bivià-Ausina, Carles Nondegenerate ideals in formal power series rings. (English summary) **2005d:13035**
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Chang, Gyu Whan (*with* Park, Jeanam) GCD-sets in integral domains. II. (English summary) **2005i:13034**
— Strong Mori domains and the ring $D[X]_{N_v}$. (English summary) **2005i:13030**
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13A18 Valuations and their generalizations [see also 12J20]

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Cutkosky, Steven Dale (*with* Piltant, Olivier) Ramification of valuations. (English summary) **2005g:13004**
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Teissier, Bernard Valuations, deformations, and toric geometry. (English summary) **2005m:14021**
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13A30 Associated graded rings of ideals (Rees ring, form ring), analytic spread and related topics

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Conca, Aldo (*with* De Negri, E.; Jayanthan, A. V.; Rossi, Maria Evelina) Graded rings associated with contracted ideals. **2005k:13006**
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Elias, Juan Depth of higher associated graded rings. (English summary) **2005a:13006**
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13A35 Characteristic p methods (Frobenius endomorphism) and reduction to characteristic p; tight closure [see also 13B22]

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13Bxx Ring extensions and related topics

13B02 Extension theory

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13B10 Morphisms

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13B21 Integral dependence

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13B22 Integral closure of rings and ideals [see also 13A35]; integrally closed rings, related rings (Japanese, etc.)

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13B24 Going up; going down; going between

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Sharma, Pramod K. A note on lifting of chains of prime ideals. (English summary) **2005b:13012**

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— (*with* Hetzel, Andrew J.) On chain morphisms of commutative rings. (French summary) **2005b:13010**
Glaz, Sarah Controlling the zero divisors of a commutative ring. (English summary) **2005f:13025**
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13B25 Polynomials over commutative rings [see also 11C08, 13F20, 13M10]

Coulter, Robert S. (*with* Havas, George; Henderson, Marie) On decomposition of sublinearised polynomials. (English summary) **2005b:13013**
Havas, George *see* **Coulter, Robert S. et al.**, **2005b:13013**
Henderson, Marie *see* **Coulter, Robert S. et al.**, **2005b:13013**
Loper, K. Alan (*with* Roitman, Moshe) The content of a Gaussian polynomial is invertible. (English summary) **2005j:13009**
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Swan, Richard G. *see* **McAdam, Stephen**, **2005b:13014**

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Habiro, Kazuo Cyclotomic completions of polynomial rings. (English summary) **2005j:13010**
(Leĭtes, D. A.) *see* **Prasolov, Viktor Vasil′evich**, **2005f:12001**
Mostafa, M. I. A new approach to polynomial identities. (English summary) **2005m:11038**
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13B30 Quotients and localization

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Woods, R. G. *see* **Raphael, R. M.**, **2005d:16049**

13B35 Completion [see also 13J10]

Charters, P. (*with* Loepp, S.) Semilocal generic formal fibers. (English summary) **2005e:13008**
Griffith, Phillip Approximate liftings in local algebra and a theorem of Grothendieck. (English summary) **2005k:13016**
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13B40 Étale and flat extensions; Henselization; Artin approximation [see also 13J15, 14B12, 14B25]

Popescu, Dorin Variations on Néron desingularization. **2005j:13011**

13B99 None of the above, but in this section

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Okabe, Akira On amply strong semistar domains. **2005i:13004**

13Cxx Theory of modules and ideals

Ferrand, Daniel Conducteur, descente et pincement. (English and French summaries) [Conductor, descent and pinching] **2005a:13016**

13C05 Structure, classification theorems

Coquand, Thierry (*with* Lombardi, Henri; Quitté, Claude) Generating non-Noetherian modules constructively. (English summary) **2005h:13014**
Hassler, Wolfgang Criteria for direct-sum cancellation, with an application to negative quadratic orders. **2005b:13015**
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— (*with* Ershad, M.) On regular module. (English summary)
Ershad, M. *see* **Amiri, Nasser**
Huneke, Craig (*with* Leuschke, Graham J.) Local rings of countable Cohen-Macaulay type. (English summary) **2005a:13021**
Leuschke, Graham J. *see* **Huneke, Craig, 2005a:13021**

13C10 Projective and free modules and ideals [see also 19A13]

Ali, Majid M. (*with* Smith, David J.) Locally cyclic projective modules. (English summary) **2005m:13014**
Das, Mrinal Kanti[2] (*with* Mandal, Satya) Euler class construction. (English summary) **2005m:13015**
Enochs, Edgar E. (*with* Jenda, Overtoun M. G.) Ω-Gorenstein projective and flat covers and Ω-Gorenstein injective envelopes. (English summary) **2005g:13019**
Ischebeck, Friedrich (*with* Rao, Ravi A.) ★ Ideals and reality. **2005i:13014**
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Srinivas, Vasudevan A generalized Serre problem. (English summary) **2005e:13010**

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(Auslander, M.) *see* **Braun, Amiram, 2005a:13020**
Braun, Amiram On a question of M. Auslander. **2005a:13020**
Brewer, James (*with* Klingler, Lee) Rings of integer-valued polynomials and the bcs-property. **2005c:13023**
Feng, Deng Guo *see* **Wang, Ming Sheng[2]**
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Olberding, Bruce (*with* Saydam, A. Serpil) Projective presentations of finitely generated modules with large annihilators. (English summary) **2005m:13017**
Puninskiĭ, G. E. (*with* Rothmaler, Philipp) When every finitely generated flat module is projective. (English summary) **2005c:16004**
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Saydam, A. Serpil *see* **Olberding, Bruce, 2005m:13017**
Wang, Ming Sheng[2] (*with* Feng, Deng Guo) On Lin-Bose problem. (English summary)

13C11 Injective and flat modules and ideals

Akhavizadegan, M. *see* **Payrovi, Sh., 2005b:13018**
An, Hong Qing (*with* Wang, Fang Gui) Associated property over rings. (Chinese. English and Chinese summaries)
Bazzoni, Silvana (*with* Salce, Luigi) On strongly flat modules over integral domains. (English summary) **2005d:13018**
Fuchs, László[1] (*with* Salce, Luigi; Trlifaj, Jan) On strongly flat modules over Matlis domains. **2005b:13016**
Ionescu, Cristodor Torsion in tensor powers and flatness. (English summary) **2005b:13017**
Payrovi, Sh. (*with* Akhavizadegan, M.) Structure of flat covers of injective modules. (English summary) **2005b:13018**
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Samei, K. Flat submodules of free modules over commutative Bezout rings. (English summary) **2005m:13016**
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Trlifaj, Jan *see* **Fuchs, László[1] et al., 2005b:13016**
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Belshoff, Richard G. (*with* Enochs, Edgar E.) The Gorenstein injective envelope of the residue field of a local ring. (English summary) **2005j:13014**
Enochs, Edgar E. (*with* Jenda, Overtoun M. G.; López-Ramos, J. A.) The existence of Gorenstein flat covers. (English summary) **2005b:16005**
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13C12 Torsion modules and ideals

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Saydam, A. Serpil *see* **Olberding, Bruce, 2005m:13017**

Items with secondary classifications in 13C12

Ionescu, Cristodor Torsion in tensor powers and flatness. (English summary) **2005b:13017**

13C13 Other special types

Abbasi, Mohd. Yahya *see* **Mehdi, Fazal et al.**
Akharraz, I. (*with* Charkani, M. E.) Fitting ideals and canonical forms for finitely generated modules. (English summary) **2005a:13018**
Ali, Majid M. (*with* Smith, David J.) Pure submodules of multiplication modules. (English summary) **2005e:13011**
— (*with* Smith, David J.) Some remarks on multiplication and projective modules. (English summary) **2005i:13015**
Alkan, Mustafa (*with* Tıraş, Yücel) On invertible and dense submodules. (English summary) **2005k:13018**
Al-Shaniafi, Yousef Endomorphisms of a multiplication module. (English summary) **2005d:13019**
Ameri, Reza Two versions of Nakayama lemma for multiplication modules. (English summary)
Amiri, Nasser (*with* Ershad, M.) Cover for modules. II.
— (*with* Ershad, M.) On regular module. (English summary)
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Arnold, David M. (*with* Dugas, Manfred; Rangaswamy, K. M.) Torsion-free modules of finite rank over a discrete valuation ring. (English summary) **2005a:13019**
(Auslander, M.) *see* **Braun, Amiram, 2005a:13020**
Barry, Mamadou (*with* Diankha, Oumar; Sanghare, Mamadou) On commutative FGI-rings. (English summary)
Braun, Amiram On a question of M. Auslander. **2005a:13020**
Charkani, M. E. *see* **Akharraz, I., 2005a:13018**
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Ebrahimi Atani, Shahabaddin On prime modules over pullback rings. (English summary) **2005h:13017**
— Strongly irreducible submodules. (English summary) **2005k:13019**
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Gueye, Cheikh Thiécoumba (*with* Sanghare, Mamadou) On commutative *FGS*-rings. (English summary) **2005h:13018**
Hedayat, Sina (*with* Nekooei, R.) Characterization of prime submodules of a finitely generated free module over a PID. (English summary) **2005j:13012**
Khaksari, A. (*with* Sharif, H.; Ershad, M.) On prime submodules of multiplication modules. (English summary) **2005k:13020**
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Mehdi, Alveera *see* **Mehdi, Fazal et al.**
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Nekooei, R. *see* **Hedayat, Sina, 2005j:13012**
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Salce, Luigi Tilting modules over valuation domains. (English summary) **2005f:13009**
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Sanwong, J. (*with* Srisook, S.) A note on serial multiplication modules. (English summary) **2005i:13016**
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Gabelli, Stefania (*with* Roitman, Moshe) Maximal divisorial ideals and t-maximal ideals. (English summary) **2005m:13005**
Hong, Jooyoun Rees algebras of conormal modules. (English summary) **2005f:13003**
Idelhadj, Abdelouahab (*with* Kaidi, El Amin; Martín Barquero, Dolores; Martín González, Cándido) Rings whose class of projective modules is socle fine. (English summary) **2005g:16002**

Kaidi, El Amin *see* **Idelhadj, Abdelouahab et al., 2005g:16002**
Karr, Ryan Finite representation type and direct-sum cancellation. (English summary) **2005a:13017**
Martín Barquero, Dolores *see* **Idelhadj, Abdelouahab et al., 2005g:16002**
Martín González, Cándido *see* **Idelhadj, Abdelouahab et al., 2005g:16002**
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Naoum, Adil G. (*with* Mijbass, Ali S.) Uniform quasi-Dedekind modules. (English and Arabic summaries) **2005m:13028**
Roitman, Moshe *see* **Gabelli, Stefania, 2005m:13005**

13C14 Cohen-Macaulay modules [see also 13H10]

Asadollahi, Javad (*with* Salarian, Shokrollah) Lower and upper bounds for Cohen-Macaulay dimension. (English summary) **2005m:13018**
Drozd, Yu. A. (*with* Greuel, Gert-Martin; Kashuba, Irina) On Cohen-Macaulay modules on surface singularities. (English and Russian summaries) **2005f:13010**
— Vector bundles and Cohen-Macaulay modules. **2005j:13013**
Ene, Viviana (*with* Popescu, Dorin) Rank one maximal Cohen-Macaulay modules over singularities of type $Y_1^3 + Y_2^3 + Y_3^3 + Y_4^3$. (English summary) **2005b:13019**
Greuel, Gert-Martin *see* **Drozd, Yu. A. et al., 2005f:13010**
Hanes, Douglas On the Cohen-Macaulay modules of graded subrings. (English summary) **2005h:13019**
Huneke, Craig (*with* Leuschke, Graham J.) Local rings of countable Cohen-Macaulay type. (English summary) **2005a:13021**
Kashuba, Irina *see* **Drozd, Yu. A. et al., 2005f:13010**
Khatami, Leila (*with* Yassemi, Siamak) Cohen-Macaulayness of tensor products. (English summary) **2005k:13021**
Leuschke, Graham J. *see* **Huneke, Craig, 2005a:13021**
Popescu, Dorin *see* **Ene, Viviana, 2005b:13019**
Salarian, Shokrollah *see* **Asadollahi, Javad, 2005m:13018**
Schenzel, Peter On birational Macaulayfications and Cohen-Macaulay canonical modules. (English summary) **2005i:13017**
Schoutens, Hans Canonical big Cohen-Macaulay algebras and rational singularities. (English summary) **2005e:13012**
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Bruns, Winfried (*with* Gubeladze, Joseph) Semigroup algebras and discrete geometry. (English summary) **2005e:14078**
Casanellas, Marta (*with* Hartshorne, Robin) Gorenstein biliaison and ACM sheaves. (English summary) **2005e:14074**
Gubeladze, Joseph *see* **Bruns, Winfried, 2005e:14078**
Hartshorne, Robin *see* **Casanellas, Marta, 2005e:14074**
Hochster, Melvin Parameter-like sequences and extensions of tight closure. **2005e:13004**
Huneke, Craig (*with* McDermott, Moira A.; Monsky, Paul) Hilbert-Kunz functions for normal rings. (English summary) **2005g:13025**
Ile, Runar Deformation theory of rank one maximal Cohen-Macaulay modules on hypersurface singularities and the Scandinavian complex. (English summary) **2005e:13023**
Jarrah, Abdul Salam (*with* Laubenbacher, Reinhard) Generic Cohen-Macaulay monomial ideals. (English summary) **2005d:13037**
Laubenbacher, Reinhard *see* **Jarrah, Abdul Salam, 2005d:13037**
McDermott, Moira A. *see* **Huneke, Craig et al., 2005g:13025**
Monsky, Paul *see* **Huneke, Craig et al., 2005g:13025**
Nagel, Uwe Liaison classes of modules. (English summary) **2005k:13023**
Rotthaus, Christel (*with* Şega, Liana M.) Some properties of graded local cohomology modules. (English summary) **2005h:13029**
Sazeedeh, Reza Strongly torsion free, copure flat and Matlis reflexive modules. (English summary) **2005c:13008**
Şega, Liana M. *see* **Rotthaus, Christel, 2005h:13029**

13C15 Dimension theory, depth, related rings (catenary, etc.)

Deng, Shao-qiang (*with* Meng, Dao-ji) Krull dimension of certain rings of highest weight vectors. (English and Chinese summaries) **2005e:13013**
Dobbs, David E. Treed domains have grade 1. (English summary) **2005a:13022**
Eisenbud, David (*with* Huneke, Craig; Ulrich, Bernd) Order ideals and a generalized Krull height theorem. (English summary) **2005i:13018**
Fontana, Marco (*with* Kabbaj, Salah-Eddine) Essential domains and two conjectures in dimension theory. (English summary) **2005c:13009**
Heinzer, William J. (*with* Rotthaus, Christel; Wiegand, Sylvia) Catenary local rings with geometrically normal formal fibers. (English summary) **2005a:13023**
Huneke, Craig *see* **Eisenbud, David et al., 2005i:13018**
Kabbaj, Salah-Eddine *see* **Fontana, Marco, 2005c:13009**
Khalis, Mohammed On the t-dimension of integral domains. (English summary) **2005a:13024**
Loepp, S. (*with* Rotthaus, Christel) Generic formal fibers of polynomial ring extensions. (English summary) **2005e:13014**
Meng, Dao-ji *see* **Deng, Shao-qiang, 2005e:13013**
Rotthaus, Christel *see* **Heinzer, William J. et al., 2005a:13023** *and* **Loepp, S., 2005e:13014**
Ulrich, Bernd *see* **Eisenbud, David et al., 2005i:13018**
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Aberbach, Ian M. (*with* Ghezzi, Laura; Hà, Huy Tài) The depth of the associated graded ring of ideals with any reduction number. (English summary) **2005g:13006**
Asadollahi, Javad (*with* Salarian, Shokrollah) Gorenstein injective and Gorenstein flat resolution of modules over Gorenstein rings. (English summary) **2005i:13021**
Badawi, Ayman (*with* Lucas, Thomas G.) Rings with prime nilradical. (English summary) **2005m:13003**
Conca, Aldo (*with* Valla, Giuseppe) The dimension of certain catalecticant varieties. (English summary) **2005f:13011**
Eisenbud, David (*with* Huneke, Craig; Ulrich, Bernd) Heights of ideals of minors. (English summary) **2005b:13022**
Elias, Juan Depth of higher associated graded rings. (English summary) **2005a:13006**
Ghezzi, Laura *see* **Aberbach, Ian M. et al., 2005g:13006**
Hà, Huy Tài *see* **Aberbach, Ian M. et al., 2005g:13006**
Huneke, Craig *see* **Eisenbud, David et al., 2005b:13022**
Hwang, Chul Ju Krull dimension of a completion. (English summary) **2005c:13007**
Lucas, Thomas G. *see* **Badawi, Ayman, 2005m:13003**
Notari, Roberto A Monte Carlo method to compute the height of an ideal. (English summary) **2005m:13039**
Salarian, Shokrollah *see* **Asadollahi, Javad, 2005i:13021**
Sazeedeh, Reza Gorenstein injective dimension and dual Auslander-Bridger formula. (English summary) **2005i:13023**
Sharma, Pramod K. A note on lifting of chains of prime ideals. (English summary) **2005b:13012**
Ulrich, Bernd (*with* Vasconcelos, Wolmer V.) On the complexity of the integral closure. (English summary) **2005h:13013**
— *see also* **Eisenbud, David et al., 2005b:13022**
Valla, Giuseppe *see* **Conca, Aldo, 2005f:13011**
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13C20 Class groups [see also 11R29]

Anderson, David F. (*with* Chang, Gyu Whan) The class group of $D[X^2, X^3]$. (English summary) **2005d:13020**
— (*with* Chang, Gyu Whan) The class group of $D[\Gamma]$ for D an integral domain and Γ a numerical semigroup. (English summary) **2005g:13021**
Baetica, Cornel Cohen-Macaulay classes which are not conic. (English summary) **2005k:13022**
Chang, Gyu Whan *see* **Anderson, David F., 2005d:13020** *and* **2005g:13021**
El Baghdadi, Said The class group of the composite ring of a pair of Krull domains and applications. **2005b:13020**
Griffith, Phillip (*with* Spiroff, Sandra) Restriction of divisor classes to hypersurfaces in characteristic p. (English summary) **2005e:13015**
Spiroff, Sandra *see* **Griffith, Phillip, 2005e:13015**

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Baetica, Cornel Divisors on varieties of antisymmetric matrices. (English summary) **2005b:13021**
Bruns, Winfried (*with* Gubeladze, Joseph) Semigroup algebras and discrete geometry. (English summary) **2005e:14078**
Dubois, I. (*with* Soriano-Gafiuk, Florence) Un nouveau régulateur de type Gross. (English, French and German summaries) [A new Gross-type regulator] **2005h:11255**
Elizondo, E. Javier (*with* Kurano, Kazuhiko; Watanabe, Keiichi[1]) The total coordinate ring of a normal projective variety. **2005b:14013**
Gilmer, Robert Forty years of commutative ring theory. **2005d:13001**
Griffith, Phillip Approximate liftings in local algebra and a theorem of Grothendieck. (English summary) **2005k:13016**
Gubeladze, Joseph *see* **Bruns, Winfried, 2005e:14078**
Hassler, Wolfgang Arithmetic of weakly Krull domains. (English summary) **2005h:13034**
Hong, Jooyoun Rees algebras of conormal modules. (English summary) **2005f:13003**
Kishi, Yasuhiro On the Sylow p-subgroups of the ideal class groups of some imaginary cyclic fields of degree $p - 1$. **2005m:11209**
Kurano, Kazuhiko *see* **Elizondo, E. Javier et al., 2005b:14013**
Soriano-Gafiuk, Florence *see* **Dubois, I., 2005h:11255**
Watanabe, Keiichi[1] *see* **Elizondo, E. Javier et al., 2005b:14013**

13C40 Linkage, complete intersections and determinantal ideals [see also 14M06, 14M10, 14M12]

Baetica, Cornel Divisors on varieties of antisymmetric matrices. (English summary) **2005b:13021**
Bruns, Winfried (*with* Conca, Aldo) Gröbner bases and determinantal ideals. (English summary) **2005a:13025**
Conca, Aldo (*with* Valla, Giuseppe) The dimension of certain catalecticant varieties. (English summary) **2005f:13011**
— *see also* **Bruns, Winfried, 2005a:13025**
Eisenbud, David (*with* Huneke, Craig; Ulrich, Bernd) Heights of ideals of minors. (English summary) **2005b:13022**
Ghorpade, Sudhir R. (*with* Krattenthaler, Christian) The Hilbert series of Pfaffian rings. (English summary) **2005c:13010**
Hoşten, Serkan (*with* Sullivant, Seth) Ideals of adjacent minors. (English summary) **2005c:13011**
Huneke, Craig *see* **Eisenbud, David et al., 2005b:13022**
Kang, Oh-Jin (*with* Ko, Hyoung J.) The structure theorem for complete intersections of grade 4. (English summary) **2005m:13019**
Ko, Hyoung J. *see* **Kang, Oh-Jin, 2005m:13019**
Košir, Tomaž (*with* Sethuraman, B. A.) Determinantal varieties over truncated polynomial rings. (English summary) **2005h:13020**
Krattenthaler, Christian (*with* Rubey, Martin) A determinantal formula for the Hilbert series of one-sided ladder determinantal rings. (English summary) **2005a:13026**
— *see also* **Ghorpade, Sudhir R., 2005c:13010**
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13D02 Syzygies and resolutions

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13D05 Homological dimension

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13D10 Deformations and infinitesimal methods [see also 14B10, 14B12, 14D15, 32Gxx]

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13D45 Local cohomology [see also 14B15]

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13Exx Chain conditions, finiteness conditions

13E05 Noetherian rings and modules

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13E15 Rings and modules of finite generation or presentation; number of generators

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13Fxx Arithmetic rings and other special rings

13F05 Dedekind, Prüfer and Krull rings and their generalizations

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13F07 Euclidean rings and generalizations

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Jia, Lu *see* **Yao, Guang Tong**
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13F15 Factorial rings, unique factorization domains [see also 14M05]

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13F20 Polynomial rings and ideals; rings of integer-valued polynomials [see also 11C08, 13B25]

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13F30 Valuation rings [see also 13A18]

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13F40 Excellent rings

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Andradas, C. (*with* Díaz-Cano, A.) Closed stability index of excellent Henselian local rings. (English summary) **2005k:13048**
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Rotthaus, Christel *see* **Heinzer, William J. et al., 2005a:13023**
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13F50 Rings with straightening laws, Hodge algebras

Items with secondary classifications in 13F50

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Bruns, Winfried (*with* Conca, Aldo) Gröbner bases and determinantal ideals. (English summary) **2005a:13025**
Conca, Aldo *see* **Bruns, Winfried, 2005a:13025**

13F55 Face and Stanley-Reisner rings; simplicial complexes [see also 55U10]

Altmann, Klaus (*with* Christophersen, Jan Arthur) Cotangent cohomology of Stanley-Reisner rings. (English summary) **2005j:13020**
Babson, Eric (*with* Novik, Isabella; Thomas, Rekha R.) Symmetric iterated Betti numbers. (English summary) **2005f:13023**
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Laubenbacher, Reinhard *see* **Jarrah, Abdul Salam, 2005d:13037**
Novik, Isabella *see* **Babson, Eric et al., 2005f:13023**
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Bruns, Winfried (*with* Conca, Aldo) Gröbner bases and determinantal ideals. (English summary) **2005a:13025**
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Snellman, Jan Truncations of the ring of arithmetical functions with unitary convolution. (English summary) **2005h:11012**
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13F99 None of the above, but in this section

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13G05 Integral domains

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Hassler, Wolfgang *see* **Halter-Koch, Franz et al., 2005b:13043**
Kainrath, Florian Elasticity of finitely generated domains. **2005k:13045**
— *see also* **Halter-Koch, Franz et al., 2005b:13043**
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Anderson, D. D. (*with* Kwak, Dong Je; Zafrullah, Muhammad) Some remarks on distinguished domains. (English summary) **2005a:13038**
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13Hxx Local rings and semilocal rings

13H05 Regular local rings

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13Jxx Topological rings and modules [see also 16W60, 16W80]

13J05 Power series rings [see also 13F25]

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13K05 Witt vectors and related rings

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13L05 Applications of logic to commutative algebra [see also 03Cxx, 03Hxx]

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13Mxx Finite commutative rings {For number-theoretic aspects, see 11Txx.}

13M99 None of the above, but in this section

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13Nxx Differential algebra [see also 12H05, 14F10]

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13N10 Rings of differential operators and their modules [see also 16S32, 32C38]

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13P10 Polynomial ideals, Gröbner bases [see also 13F20]

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14–XX Algebraic geometry

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14–02 Research exposition (monographs, survey articles)

Birkenhake, Christina (*with* Lange, Herbert) ★ Complex abelian varieties. **2005c:14001**
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14–06 Proceedings, conferences, collections, etc.

(Bonavero, Laurent) *see* **Geometry of toric varieties, 2005a:14001**
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14Axx Foundations

14A05 Relevant commutative algebra [see also 13–XX]

Items with secondary classifications in 14A05

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14A10 Varieties and morphisms

Ballico, Edoardo Approximation of holomorphic maps by algebraic morphisms. (English summary)

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van Rossum, Peter *see* **Makar-Limanov, Leonid et al., 2005d:14094**
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14A15 Schemes and morphisms

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14A20 Generalizations (algebraic spaces, stacks)

Aoki, Masao Deformation theory of algebraic stacks. (English summary) **2005g:14004**
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Toën, Bertrand (*with* Vezzosi, Gabriele) From HAG to DAG: derived moduli stacks. (English summary) **2005f:14001**
Totaro, Burt The resolution property for schemes and stacks. (English summary) **2005j:14002**
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14A22 Noncommutative algebraic geometry

van den Bergh, Michel Non-commutative crepant resolutions. (English summary) **2005e:14002**
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Polishchuk, Alexander Noncommutative two-tori with real multiplication as noncommutative projective varieties. (English summary) **2005j:14003**
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Škoda, Zoran Localizations for construction of quantum coset spaces. (English summary) **2005b:14005**
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Soibelman, Yan Mirror symmetry and noncommutative geometry of A_∞-categories. (English summary) **2005j:14058**
Varadarajan, V. S. *see* **Fioresi, R. et al., 2005m:53181**

14A99 None of the above, but in this section

Bertolin, Cristiana Le radical unipotent du groupe de Galois motivique d'un 1-motif. [The unipotent radical of the motivic Galois group of a 1-motive] **2005e:14003**
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Plotkin, B. Algebras with the same (algebraic) geometry. (English summary) **2005d:08013**

14Bxx Local theory

14B05 Singularities [see also 14E15, 14H20, 14J17, 32Sxx, 58Kxx]

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14Dxx Families, fibrations

14D05 Structure of families (Picard-Lefschetz, monodromy, etc.)

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14D06 Fibrations, degenerations

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14D07 Variation of Hodge structures [see also 32G20]

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14D10 Arithmetic ground fields (finite, local, global)

Items with secondary classifications in 14D10

Illusie, Luc Perversité et variation. (English summary) [Perversity and variation] **2005i:14021**

14D15 Formal methods; deformations [see also 13D10, 14B07, 32Gxx]

Ballico, Edoardo (*with* Gasparim, Elizabeth) Vector bundles on a three-dimensional neighborhood of a ruled surface. (English summary) **2005f:14024**
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Sevenheck, Christian ★ Lagrangian singularities. **2005a:32031**
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14D20 Algebraic moduli problems, moduli of vector bundles {For analytic moduli problems, see 32G13.}

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— *see also* **Earl, Richard, 2005h:14026**
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Artamkin, I. V. Topologically trivial bundles on curves with the simplest singularities. (Russian. Russian summary) **2005i:14037**
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Buchdahl, Nicholas Monads and bundles on rational surfaces. (English summary) **2005d:14059**
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14Exx Birational geometry

14E05 Rational and birational maps

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14Fxx (Co)homology theory [see also 13Dxx]

14F05 Vector bundles, sheaves, related constructions [see also 14H60, 14J60, 18F20, 32Lxx, 46M20]

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14F42 Motivic cohomology

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14F45 Topological properties

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14Gxx Arithmetic problems. Diophantine geometry [see also 11Dxx, 11Gxx]

14G05 Rational points

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14G15 Finite ground fields

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14G32 Universal profinite groups (relationship to moduli spaces, projective and moduli towers, Galois theory)

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14G40 Arithmetic varieties and schemes; Arakelov theory; heights [see also 11G50]

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14G99 None of the above, but in this section

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14H40 Jacobians, Prym varieties [see also 32G20]

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14H42 Theta functions; Schottky problem [see also 14K25, 32G20]

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14H45 Special curves and curves of low genus

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14H50 Plane and space curves

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14H51 Special divisors (gonality, Brill-Noether theory)

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— Nodal curves and Brill-Noether theory. (English summary) **2005f:14067**
— Non-special projectively normal line bundles on general k-gonal curves. (English summary) **2005h:14083**
— On the injectivity of the symmetric multiplication map for line bundles on smooth projective curves. (English summary) **2005h:14084**
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— Five-gonal curves of genus nine. (English summary) **2005k:14061**
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14H52 Elliptic curves [see also 11G05, 11G07, 14Kxx]

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14H55 Riemann surfaces; Weierstrass points; gap sequences [see also 30Fxx]

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14H60 Vector bundles on curves and their moduli [see also 14D20, 14F05]

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Bhosle, Usha Picard groups of the moduli spaces of semistable sheaves. I. (English summary) **2005f:14068**
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14H70 Relationships with integrable systems

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14H81 Relationships with physics

Florentino, Carlos A. (*with* Mourão, José M.; Nunes, João P.) Coherent state transforms and vector bundles on elliptic curves. (English summary) **2005d:14052**
Mourão, José M. *see* **Florentino, Carlos A. et al., 2005d:14052**
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14H99 None of the above, but in this section

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Ballico, Edoardo (*with* Notari, Roberto; Spreafico, Maria Luisa) Ropes on a line embedded in a Grassmannian variety. (English summary) **2005f:14094**
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Teixidor I Bigas, Montserrat Injectivity of the symmetric map for line bundles. (English summary) **2005d:14012**
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14Jxx Surfaces and higher-dimensional varieties {For analytic theory, see 32Jxx.}

14J10 Families, moduli, classification: algebraic theory

Bădescu, Lucian On some contractibility criteria of curves on surfaces. (English summary) **2005j:14049**
Casnati, Gianfranco The moduli space of Enriques surfaces with a polarization of degree 4 is rational. (English summary) **2005e:14054**
Catanese, Fabrizio Moduli spaces of surfaces and real structures. (English summary) **2005d:14053**
Chen, Jungkai Alfred (*with* Hacon, Christopher Derek) Varieties with $P_3(X) = 4$ and $q(X) = \dim(X)$. (English summary) **2005e:14055**
Hacon, Christopher Derek *see* **Chen, Jungkai Alfred, 2005e:14055**
Kulikov, Viktor S. Generic coverings of the plane and braid monodromy invariants. **2005j:14050**
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Zuo, Kang[1] *see* **Viehweg, Eckart**, **2005j:14051** *and* **2005m:14059**

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Bauer, Ingrid C. (*with* Catanese, Fabrizio) Some new surfaces with $p_g = q = 0$. **2005k:14079**
Catanese, Fabrizio *see* **Bauer, Ingrid C.**, **2005k:14079**
Fujino, Osamu Algebraic fiber spaces whose general fibers are of maximal Albanese dimension. (English summary) **2005d:14016**
Harris, Joseph Daniel (*with* Roth, Mike; Starr, Jason) Rational curves on hypersurfaces of low degree. (English summary) **2005e:14067**
Long, Ling On Shioda-Inose structures of one-parameter families of $K3$ surfaces. (English summary) **2005h:14092**
Mendes Lopes, Margarida (*with* Pardini, Rita) A new family of surfaces with $p_g = 0$ and $K^2 = 3$. (English and French summaries) **2005h:14095**
Nakayama, Noboru ★ Zariski-decomposition and abundance. **2005h:14015**
van Opstall, Michael A. Moduli of stable surfaces. (English summary) **2005g:14026**
Pardini, Rita *see* **Mendes Lopes, Margarida**, **2005h:14095**
Roth, Mike *see* **Harris, Joseph Daniel et al.**, **2005e:14067**
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14J15 Moduli, classification: analytic theory; relations with modular forms [see also 32G13]

Matsumoto, Keiji[1] (*with* Terasoma, Tomohide) Theta constants associated to coverings of $\mathbf{P}^1$ branching at eight points. (English summary) **2005k:14072**
Schumacher, Georg (*with* Tsuji, Hajime) Quasi-projectivity of moduli spaces of polarized varieties. (English summary) **2005h:14089**
Terasoma, Tomohide *see* **Matsumoto, Keiji[1]**, **2005k:14072**
Tsuji, Hajime *see* **Schumacher, Georg**, **2005h:14089**

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Fujino, Osamu A canonical bundle formula for certain algebraic fiber spaces and its applications. (English summary) **2005b:14024**
Long, Ling L-series of certain elliptic surfaces. (English summary) **2005b:11090**
– On Shioda-Inose structures of one-parameter families of $K3$ surfaces. (English summary) **2005h:14092**
Olsson, Martin C. Semistable degenerations and period spaces for polarized $K3$ surfaces. (English summary) **2005j:14056**
Takamura, Shigeru Towards the classification of atoms of degenerations. I. Splitting criteria via configurations of singular fibers. (English summary) **2005c:14009**
Todorov, Andreĭ Nikolov Local and global theory of the moduli of polarized Calabi-Yau manifolds. (English summary) **2005h:32056**
Yoshikawa, Ken-Ichi Nikulin's $K3$ surfaces, adiabatic limit of equivariant analytic torsion, and the Borcherds Φ-function. (English summary) **2005h:14093**
– $K3$ surfaces with involution, equivariant analytic torsion, and automorphic forms on the moduli space. (English summary) **2005f:58062**

14J17 Singularities [see also 14B05, 14E15]

Arima, Ken-ichiro On index one covers of two-dimensional purely log terminal singularities in positive characteristic. (English summary) **2005g:14068**
Ciliberto, Ciro (*with* Di Gennaro, Vincenzo) Factoriality of certain hypersurfaces of $\mathbf{P}^4$ with ordinary double points. (English summary) **2005i:14043**
Di Gennaro, Vincenzo *see* **Ciliberto, Ciro**, **2005i:14043**
Fujisawa, Atsuko The classification of 3-dimensional hypersurface purely elliptic singularities of $(0, 1)$-type. **2005a:14047**
Keum, JongHae (*with* Zhang, De-Qi) Algebraic surfaces with quotient singularities—including some discussion on automorphisms and fundamental groups. **2005g:14069**
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Némethi, András (*with* Nicolaescu, Liviu I.) Seiberg-Witten invariants and surface singularities. II. Singularities with good $\mathbb{C}^*$-action. (English summary) **2005g:14070**
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Piene, Ragni Singularities of some projective rational surfaces. (English summary) **2005m:14060**
Sarti, Alessandra Symmetric surfaces with many singularities. (English summary) **2005i:14044**
Wada, Koukichi Characterizations of minimally elliptic singularities and rational triple points. (English summary) **2005m:14061**
Zhang, De-Qi *see* **Keum, JongHae**, **2005g:14069**

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Aluffi, Paolo Inclusion-exclusion and Segre classes. II. (English summary) **2005d:14009**
Brieskorn, Egbert (*with* Pratoussevitch, Anna; Rothenhäusler, Frank) The combinatorial geometry of singularities and Arnold's series E, Z, Q. (English and Russian summaries) **2005a:30071**
Calabri, Alberto (*with* Ciliberto, Ciro; Flamini, Flaminio; Miranda, Rick) On the geometric genus of reducible surfaces and degenerations of surfaces to unions of planes. **2005j:14010**
Ciliberto, Ciro *see* **Calabri, Alberto et al.**, **2005j:14010**
Dais, Dimitrios I. Resolving 3-dimensional toric singularities. (English summary) **2005e:14004**
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Flamini, Flaminio *see* **Calabri, Alberto et al.**, **2005j:14010**
Gordon, Iain (*with* Rumynin, D. A.) Subregular representations of $\mathfrak{sl}_n$ and simple singularities of type A_{n-1}. II. (English summary) **2005f:17006**
Greuel, Gert-Martin *see* **Drozd, Yu. A. et al.**, **2005f:13010**
Gustavsen, Trond Stølen (*with* Ile, Runar) The versal deformation space of a reflexive module on a rational cone. (English summary) **2005j:14011**
Hefez, Abramo Irreducible plane curve singularities. **2005h:14071**
Ile, Runar *see* **Gustavsen, Trond Stølen**, **2005j:14011**
Ishii, Yuji (*with* Nakayama, Noboru) Classification of normal quartic surfaces with irrational singularities. (English summary) **2005e:14057**
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Kühnel, Marco A note on octic hypersurfaces with many nodes. **2005m:14076**
Miranda, Rick *see* **Calabri, Alberto et al.**, **2005j:14010**
Mustaţă, Mircea *see* **Ein, Lawrence**, **2005j:14020**
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Pichon, Anne Real analytic germs $f\bar{g}$ and open-book decompositions of the 3-sphere. (English summary) **2005j:32034**
Pratoussevitch, Anna *see* **Brieskorn, Egbert et al.**, **2005a:30071**
Reguera, Ana J. Image of the Nash map in terms of wedges. (English and French summaries) **2005c:14016**
Rodrigues, Bart On the monodromy conjecture for curves on normal surfaces. (English summary) **2005g:14006**
Rothenhäusler, Frank *see* **Brieskorn, Egbert et al.**, **2005a:30071**
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Shimada, Ichiro Rational double points on supersingular $K3$ surfaces. (English summary) **2005g:14076**
Shin, Dong-Kwan Nonvanishing of a plurigenus of a threefold of general type. (English summary) **2005e:14061**
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Tevelev, Evgueni A. Projectively dual varieties. **2005c:14069**
Watanabe, Keiichi[1] *see* **Takagi, Shunsuke[2]**, **2005d:13016**
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14J20 Arithmetic ground fields [see also 11Dxx, 11G25, 11G35, 14Gxx]

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Kollár, János (*with* Szabó, Endre) Rationally connected varieties over finite fields. (English summary) **2005h:14090**
Szabó, Endre *see* **Kollár, János**, **2005h:14090**

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Basile, Carmen Laura (*with* Skorobogatov, A. N.) On the Hasse principle for bielliptic surfaces. **2005e:14056**
Shimada, Ichiro Supersingular $K3$ surfaces in odd characteristic and sextic double planes. (English summary) **2005a:14052**
Skorobogatov, A. N. *see* **Basile, Carmen Laura**, **2005e:14056**

14J25 Special surfaces {For Hilbert modular surfaces, see 14G35.}

Ballico, Edoardo On the Gaussian maps of blown-up projective manifolds. (English summary) **2005m:14062**
Barile, Margherita (*with* Morales, Marcel) On unions of scrolls along linear spaces. **2005i:14045**
Basile, Carmen Laura (*with* Skorobogatov, A. N.) On the Hasse principle for bielliptic surfaces. **2005e:14056**
Holzapfel, R.-P. Complex hyperbolic surfaces of abelian type. (English summary) **2005m:14063**
Ishii, Yuji (*with* Nakayama, Noboru) Classification of normal quartic surfaces with irrational singularities. (English summary) **2005e:14057**
Morales, Marcel *see* **Barile, Margherita**, **2005i:14045**
Nakayama, Noboru *see* **Ishii, Yuji**, **2005e:14057**
Skorobogatov, A. N. *see* **Basile, Carmen Laura**, **2005e:14056**

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Ballico, Edoardo Covering maps of bimeromorphically equivalent compact complex surfaces. (English summary)
Bauer, Ingrid C. (*with* Catanese, Fabrizio) Some new surfaces with $p_g = q = 0$. **2005k:14079**
Besana, Gian Mario (*with* Di Rocco, Sandra; Lanteri, Antonio) Peculiar loci of ample and spanned line bundles. (English summary) **2005f:14013**
Catanese, Fabrizio *see* **Bauer, Ingrid C.**, **2005k:14079**
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Gurjar, R. V. Two remarks on the topology of projective surfaces. (English summary) 2005b:14035
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Li, Zheng Xing Even sets on a plane curve of degree four. (Chinese. English and Chinese summaries)
Mendes Lopes, Margarida (*with* Pardini, Rita) A new family of surfaces with $p_g = 0$ and $K^2 = 3$. (English and French summaries) 2005h:14095
— (*with* Pardini, Rita) Surfaces of general type with $p_g = 0$, $K^2 = 6$ and non birational bicanonical map. (English summary) 2005m:14067
Pardini, Rita *see* Mendes Lopes, Margarida, 2005h:14095 *and* 2005m:14067
Rams, Sławomir Projective surfaces with many skew lines. (English summary) 2005d:14071
Roggero, Margherita Laudal-type theorems in $\mathbf{P}^N$. (English summary) 2005f:14093
Salvati Manni, Riccardo *see* Freitag, Eberhard, 2005j:11033
Sarti, Alessandra Symmetric surfaces with many singularities. (English summary) 2005i:14044

14J26 Rational and ruled surfaces

Abe, Makoto[2] (*with* Furushima, Mikio) On non-normal del Pezzo surfaces. (English summary) 2005b:14073
Alzati, Alberto (*with* Bertolini, Marina; Besana, Gian Mario) Two dimensional scrolls contained in quadric cones in $\mathbb{P}^5$. (English summary) 2005k:14075
Bartocci, Claudio (*with* Macrí, Emanuele) Classification of Poisson surfaces. (English summary) 2005m:14064
Batyrev, Victor V. (*with* Popov, Oleg N.) The Cox ring of a del Pezzo surface. (English summary) 2005h:14091
Bertolini, Marina *see* Alzati, Alberto et al., 2005k:14075
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Chierici, Elena The second dual variety of rational conic bundles. (English summary) 2005m:14065
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Eisenbud, David (*with* Hulek, Klaus; Popescu, Sorin) A note on the intersection of Veronese surfaces. (English summary) 2005a:14048
Fuentes García, Luis (*with* Pedreira, Manuel) Canonical geometrically ruled surfaces. (English summary) 2005k:14076
Furushima, Mikio *see* Abe, Makoto[2], 2005b:14073
Galindo Pastor, Carlos (*with* Monserrat, F.) On the cone of curves and of line bundles of a rational surface. (English summary) 2005f:14075
Hassett, Brendan (*with* Tschinkel, Yu.) Universal torsors and Cox rings. (English summary) 2005a:14049
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Kitagawa, Shinya On Mordell-Weil lattices of bielliptic fibrations on rational surfaces. (English summary) 2005k:14077
Kojima, Hideo Rank one log del Pezzo surfaces of index two. (English summary) 2005d:14054
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Lahyane, Mustapha Exceptional curves on rational surfaces having $K^2 \geq 0$. (English and French summaries) 2005a:14050
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Macrí, Emanuele *see* Bartocci, Claudio, 2005m:14064
Monserrat, F. *see* Galindo Pastor, Carlos, 2005f:14075
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Schenck, Hal Linear systems on a special rational surface. (English summary) 2005j:14053
Suzuki, Kaori *see* Reid, Miles, 2005g:14071
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Ballico, Edoardo On the postulation of the multiples of the nodes for generic nodal curves on generic rational surfaces. (English summary) 2005i:14036
— (*with* Fontanari, Claudio) A remark on error-correcting codes from ruled surfaces. (English summary)
— Curves in rational surfaces. (English summary)
Bauer, Thomas (*with* Küronya, A.; Szemberg, Tomasz) Zariski chambers, volumes, and stable base loci. 2005h:14012
Daigle, Daniel (*with* Russell, Peter) On log $\mathbb{Q}$-homology planes and weighted projective planes. (English summary) 2005i:14077
Di Gennaro, Roberta[1] On curves on rational normal scroll surfaces. (English summary) 2005m:14011
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Fitchett, Stephanie Corrigendum to: "On bounding the number of generators for fat point ideals on the projective plane" [J. Algebra **236** (2001), no. 2, 502–521; MR1813489 (2002c:13028)]. 2005a:13029
Fontanari, Claudio *see* Ballico, Edoardo
Fukasawa, Satoru Developable varieties in positive characteristic. (English summary) 2005m:14100
Furushima, Mikio *see* Abe, Makoto[2] et al., 2005j:32019
Küronya, A. *see* Bauer, Thomas et al., 2005h:14012
Mukhopadhyay, Subir (*with* Ray, Koushik) Seiberg duality as derived equivalence for some quiver gauge theories. (English summary) 2005a:81231
Păsărescu, Ovidiu Linearly normal curves in $\mathbf{P}^n$. (English summary) 2005h:14080
Ray, Koushik *see* Mukhopadhyay, Subir, 2005a:81231
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Saito, Masa-Hiko (*with* Terajima, Hitomi) Nodal curves and Riccati solutions of Painlevé equations. (English summary) 2005j:14048
Schicho, Josef Algorithms for rational surfaces. (English summary) 2005e:14093
Shima, Tadashi *see* Abe, Makoto[2] et al., 2005j:32019
Strycharz-Szemberg, Beata (*with* Szemberg, Tomasz) Remarks on the Nagata conjecture. (English summary) 2005h:14017
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Szemberg, Tomasz *see* Bauer, Thomas et al., 2005h:14012 *and* Strycharz-Szemberg, Beata, 2005h:14017
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14J35 4-folds

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14J45 Fano varieties

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14J50 Automorphisms of surfaces and higher-dimensional varieties

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14J60 Vector bundles on surfaces and higher-dimensional varieties, and their moduli [see also 14D20, 14F05, 32Lxx]

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Maciocia, Antony *see* **Jardim, Marcos**, **2005i:14054**
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Reinbacher, René *see* **He, Yang Hui et al.**, **2005h:14028**
Smirnov, Aleksandr Leonidovich Homotopy properties of algebraic vector bundles. (Russian. English and Russian summaries) **2005i:14025**
Tyurin, Andrei N. Fano versus Calabi-Yau. (English summary) **2005h:14098**
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14J70 Hypersurfaces

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Kühnel, Marco A note on octic hypersurfaces with many nodes. **2005m:14076**
Mikhalkin, G. B. Decomposition into pairs-of-pants for complex algebraic hypersurfaces. (English summary) **2005i:14055**
Pacienza, Gianluca Subvarieties of general type on a general projective hypersurface. (English summary) **2005c:14049**
Ran, Ziv *see* **Clemens, C. Herbert**, **2005j:14062a** *and* **2005j:14062b**
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Kudryavtsev, S. A. Classification of three-dimensional exceptional log-canonical hypersurface singularities. II. (Russian. Russian summary) **2005g:14078**
Shiffman, Bernard *see* **Zaidenberg, Mikhail**, **2005k:32028**
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Zaidenberg, Mikhail (*with* Shiffman, Bernard) New examples of Kobayashi hyperbolic surfaces in $\mathbb{CP}^3$. (Russian) **2005k:32028**

14J80 Topology of surfaces (Donaldson polynomials, Seiberg-Witten invariants)

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Danila, Gentiana Sur la cohomologie de la puissance symétrique du fibré tautologique sur le schéma de Hilbert ponctuel d'une surface. (English summary) [Cohomology of the symmetric power of the tautological bundle on the punctual Hilbert scheme of a surface] **2005b:14009**
Katzarkov, Ludmil Derived categories in four-dimensional topology. **2005d:53139**

14J81 Relationships with physics

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14Kxx Abelian varieties and schemes

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14K02 Isogeny

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14K05 Algebraic theory

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14K10 Algebraic moduli, classification [see also 11G15]

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14K12 Subvarieties

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14K15 Arithmetic ground fields [see also 11Dxx, 11Fxx, 11Gxx, 14Gxx]

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14K20 Analytic theory; abelian integrals and differentials

Items with secondary classifications in 14K20

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14K22 Complex multiplication [see also 11G15]

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14K25 Theta functions [see also 14H42]

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14K30 Picard schemes, higher Jacobians [see also 14H40, 32G20]

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14Lxx Algebraic groups {For linear algebraic groups, see 20Gxx; for Lie algebras, see 17B45.}

14L05 Formal groups, p-divisible groups [see also 55N22]

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Lorenz, Falko *see* **Bondarko, M. V. et al.**, **2005m:14082**
Lucarelli, Catherine A converse to Mazur's inequality for split classical groups. (English summary) **2005b:14080**
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14L15 Group schemes

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14L17 Affine algebraic groups, hyperalgebra constructions [see also 17B45, 18D35]

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14L24 Geometric invariant theory [see also 13A50]

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14L30 Group actions on varieties or schemes (quotients) [see also 13A50, 14L24]

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14L35 Classical groups (geometric aspects) [see also 20Gxx, 51N30]

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14L40 Other algebraic groups (geometric aspects)

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— *see also* **Borovoi, Mikhail et al., 2005c:11047**
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14Mxx Special varieties

14M05 Varieties defined by ring conditions (factorial, Cohen-Macaulay, seminormal) [see also 13F45, 13H10]

Chiarli, Nadia (*with* Greco, Silvio; Notari, Roberto) Postulation of adjoint ideals and geometry of projective curves. (English summary) **2005a:14064**
Greco, Silvio *see* **Chiarli, Nadia et al., 2005a:14064**
Manolache, Nicolae Cohen-Macaulay nilpotent schemes. (English summary) **2005k:14101**
Martin-Deschamps, Mireille Caractères numériques et fonctions de Macaulay. (English and French summaries) [Numerical characters and Macaulay functions] **2005h:14116**
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Bocci, Cristiano (*with* Dalzotto, G.; Notari, Roberto; Spreafico, Maria Luisa) An iterative construction of Gorenstein ideals. (English summary) **2005m:13033**
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Hà, Huy Tài Projective embeddings of projective schemes blown up at subschemes. (English summary) **2005e:14013**
Notari, Roberto *see* **Bocci, Cristiano et al., 2005m:13033**
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Sabourin, Lousindi R. Generalized k-configurations and their minimal free resolutions. (English summary) **2005b:13026**
Spreafico, Maria Luisa *see* **Bocci, Cristiano et al., 2005m:13033**

14M06 Linkage [see also 13C40]

Casanellas, Marta (*with* Hartshorne, Robin) Gorenstein biliaison and ACM sheaves (English summary) **2005e:14074**
Hartshorne, Robin On Rao's theorems and the Lazarsfeld-Rao property. (English and French summaries) **2005b:14083**
— *see also* **Casanellas, Marta, 2005e:14074**
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Guffroy, Sébastien Irréductibilité de $\mathscr{H}_{d,g}$ pour $d \leq 11$ et $g \leq 2d - 9$. (English and French summaries) [Irreducibility of $\mathscr{H}_{d,g}$ for $d \leq 11$ and $g \leq 2d - 9$] **2005j:14006**
Mella, Massimiliano *see* **Ciliberto, Ciro et al., 2005b:14078**
Migliore, Juan (*with* Nagel, Uwe) Tetrahedral curves. **2005m:14087**
Nagel, Uwe *see* **Migliore, Juan, 2005m:14087**
Russo, Francesco *see* **Ciliberto, Ciro et al., 2005b:14078**

14M07 Low codimension problems

Alzati, Alberto (*with* Tortora, Alfonso) Connected monomial invariants. (English summary) **2005k:14102**
Arrondo, Enrique Subcanonicity of codimension two subvarieties. (English summary) **2005m:14088**
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Ciliberto, Ciro (*with* Di Gennaro, Vincenzo) Boundedness for low codimensional subvarieties. (English summary) **2005f:14009**
Di Gennaro, Vincenzo *see* **Ciliberto, Ciro, 2005f:14009**
Gimigliano, A. (*with* Idà, Monica) The ideal resolution for generic 3-fat points in $\mathbb{P}^2$. (English summary) **2005e:13017**
Idà, Monica *see* **Gimigliano, A., 2005e:13017**

14M10 Complete intersections [see also 13C40]

Astey, Luis (*with* Gitler, S.; Micha, E.; Pastor, Guillermo) On the homotopy type of complete intersections. (English summary) **2005i:14058**
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Gitler, S. *see* **Astey, Luis et al., 2005i:14058**
Grujić, Vladimir N. χ_y-characteristics of projective complete intersections. (English summary) **2005a:14066**
Micha, E. *see* **Astey, Luis et al., 2005i:14058**
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14M17 Homogeneous spaces and generalizations [see also 32M10, 53C30, 57T15]

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14M25 Toric varieties, Newton polyhedra [see also 52B20]

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14N20 Configurations of linear subspaces

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14N35 Gromov-Witten invariants, quantum cohomology [see also 53D45]

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Liu, Xiaobo Relations among universal equations for Gromov-Witten invariants **2005m:14106**
Maggesi, Marco *see* **Ancona, Vincenzo**, **2005k:14116** *and* **2005m:14103**
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14N99 None of the above, but in this section

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14Pxx Real algebraic and real analytic geometry

14P05 Real algebraic sets [see also 12Dxx]

Borcea, Julius (*with* Shapiro, Boris Zalmanovich) Classifying real polynomial pencils. **2005g:14107**
Dutertre, Nicolas Geometrical and topological properties of real polynomial fibres. (English summary) **2005d:14082**
Falconi, Manuel (*with* Lacomba, Ernesto A.; Llibre, Jaume) On the parameter dependence of the real cubic surfaces in Arnold's form. (English summary) **2005f:14108**
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Elder, Murray (*with* McCammond, Jon) CAT(0) is an algorithmic property. (English summary) **2005k:20100**
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Kharlamov, Viatcheslav (*with* Orevkov, Stepan Yu.) The number of trees half of whose vertices are leaves and asymptotic enumeration of plane real algebraic curves. (English summary) **2005d:05079**
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Pennaneac'h, Hélène Virtual and non-virtual algebraic Betti numbers. (English summary) **2005k:14016**
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— *see also* **Powers, Victoria et al., 2005i:11051**
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14P10 Semialgebraic sets and related spaces

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Birbrair, Lev (*with* Cano Torres, Felipe) Characteristic exponents of semialgebraic singularities. (English summary) **2005g:14108**
Bonnard, Isabelle Prolongements en fonctions algébriquement constructibles. (English summary) [Extensions into algebraically constructible functions] **2005e:14089**
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Kawakami, Tomohiro Definable G CW complex structures of definable G sets and their applications. (English summary) **2005c:14073**
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Dutertre, Nicolas Geometrical and topological properties of real polynomial fibres. (English summary) **2005d:14082**
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14P15 Real analytic and semianalytic sets [see also 32B20, 32C05]

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14P20 Nash functions and manifolds [see also 32C07, 58A07]

Coste, Michel (*with* Ruiz, Jesús M.; Shiota, Masahiro) Global problems on Nash functions. (English summary) **2005c:14076**
Koike, Satoshi Finiteness theorems on blow-Nash triviality for real algebraic singularities. **2005h:14137**
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14P25 Topology of real algebraic varieties

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Calcut, J. S. (*with* King, Henry Churchill) Noncompact codimension-1 real algebraic manifolds. **2005h:14138**
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Itenberg, Ilia Amibes de variétés algébriques et dénombrement de courbes (d'après G Mikhalkin). (French summary) [Amoebas of algebraic varieties and enumeration of curves (following G. Mikhalkin)] **2005k:14124**
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Falconi, Manuel (*with* Lacomba, Ernesto A.; Llibre, Jaume) On the parameter dependence of the real cubic surfaces in Arnold's form. (English summary) **2005f:14108**
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Mangolte, Frédéric Cycles algébriques et topologie des surfaces biellipticques réelles. (English and French summaries) [Algebraic cycles and topology of real bielliptic surfaces] **2005b:14020**
Mourrain, Bernard *see* **Gatellier, G. et al., 2005k:65048**
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14Qxx Computational aspects in algebraic geometry [see also 12Y05, 13Pxx, 68W30]

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14Q05 Curves

Arita, Seigo (*with* Miura, Shinji; Sekiguchi, Tsutomu) An addition algorithm on the Jacobian varieties of curves. (English summary) **2005m:14114**
Guyot, Cyril (*with* Kaveh, Kiumars; Patankar, Vijay M.) Explicit algorithm for the arithmetic on the hyperelliptic Jacobians of genus 3. (English summary) **2005e:14092**
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Lange, Tanja Formulae for arithmetic on genus 2 hyperelliptic curves. (English summary) **2005j:14082**
Miura, Shinji *see* **Arita, Seigo et al.**, **2005m:14114**
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Recio, Tomas (*with* Sendra, J. Rafael; Villarino, Carlos) From hypercircles to units. (English summary) **2005k:14125**
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Eisenträger, Kirsten (*with* Lauter, Kristin; Montgomery, Peter L.) Improved Weil and Tate pairings for elliptic and hyperelliptic curves. (English summary) **2005m:11114**
Fouquet, Mireille (*with* Morain, François) Isogeny volcanoes and the SEA algorithm. (English summary) **2005c:11077**
von zur Gathen, Joachim (*with* Shparlinski, Igor E.; Sinclair, Alistair) Finding points on curves over finite fields. (English summary) **2005b:68293**
Huhtanen, Marko (*with* von Pfaler, Jan) The real linear eigenvalue problem in $\mathbb{C}^n$. (English summary) **2005i:15015**
Kim, Soondug ★ Computing in the Jacobian of a C_{34} curve. **2005k:14059**
Kotsireas, Ilias S. Panorama of methods for exact implicitization of algebraic curves and surfaces. (English summary) **2005f:65023**
Lauter, Kristin *see* **Eisenträger, Kirsten et al.**, **2005m:11114**
Martin-Deschamps, Mireille Caractères numériques et fonctions de Macaulay. (English and French summaries) [Numerical characters and Macaulay functions] **2005h:14116**
Montgomery, Peter L. *see* **Eisenträger, Kirsten et al.**, **2005m:11114**
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Pérez-Díaz, Sonia (*with* Sendra, Juana; Sendra, J. Rafael) Parametrization of approximate algebraic curves by lines. (English summary) **2005h:65030**
— (*with* Sendra, Juana; Sendra, J. Rafael) Distance properties of ε-points on algebraic curves. (English summary) **2005m:65029**
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Pimentel, Francisco Luis Rocha Algorithm for computing the moduli space of pointed Gorenstein curves with Weierstrass gap sequence $1, 2, \ldots, g-2, \lambda, 2g-3$. (English summary) **2005b:14054**
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Shaska, Tanush Computational aspects of hyperelliptic curves. (English summary) **2005h:14073**
— Determining the automorphism group of a hyperelliptic curve. (English summary) **2005c:14037**
— Some special families of hyperelliptic curves. (English summary) **2005i:14028**
Shcherbak, I. G. Gaudin's model and the generating function of the Wroński map. (English summary) **2005b:34015**
Shparlinski, Igor E. *see* **von zur Gathen, Joachim et al.**, **2005b:68293**
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14Q10 Surfaces, hypersurfaces

Chionh, Eng-Wee *see* **Zheng, Jian Min[1] et al.**, **2005c:14082**
Cox, David A. *see* **Zheng, Jian Min[1] et al.**, **2005c:14082**
Pérez-Díaz, Sonia (*with* Sendra, J. Rafael) Computation of the degree of rational surface parametrizations. (English summary) **2005d:14090**
Schicho, Josef Simplification of surface parametrizations. (English summary) **2005c:14081**
— Algorithms for rational surfaces. (English summary) **2005e:14093**
Sederberg, Thomas W. *see* **Zheng, Jian Min[1] et al.**, **2005c:14082**
Sendra, J. Rafael *see* **Pérez-Díaz, Sonia**, **2005d:14090**
Zheng, Jian Min[1] (*with* Sederberg, Thomas W.; Chionh, Eng-Wee; Cox, David A.) Implicitizing rational surfaces with base points using the method of moving surfaces. (English summary) **2005c:14082**

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Beauzamy, Bernard Fast intersection methods for the solution of some nonlinear systems of equations. **2005i:65078**
Elkadi, Mohamed (*with* Galligo, André; Lê, Thi Ha) Parametrized surfaces in $\mathbb{P}^3$ of bidegree $(1, 2)$. (English summary) **2005j:68135**
Falconi, Manuel (*with* Lacomba, Ernesto A.; Llibre, Jaume) On the parameter dependence of the real cubic surfaces in Arnold's form. (English summary) **2005f:14108**
Fortuna, Elisabetta (*with* Gianni, Patrizia; Parenti, Paola; Traverso, Carlo) Computing the topology of real algebraic surfaces. (English summary) **2005d:14083**
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Karčiauskas, Kęstutis Rational M-patches and tensor-border patches. (English summary) **2005c:65011**
Khetan, Amit Determinantal formula for the Chow form of a toric surface. (English summary) **2005d:14068**
Kotsireas, Ilias S. Panorama of methods for exact implicitization of algebraic curves and surfaces. (English summary) **2005f:65023**
Lacomba, Ernesto A. *see* **Falconi, Manuel et al.**, **2005f:14108**
Lê, Thi Ha *see* **Elkadi, Mohamed et al.**, **2005j:68135**
Llibre, Jaume *see* **Falconi, Manuel et al.**, **2005f:14108**
Mourrain, Bernard *see* **Aries, Franck et al.**, (**2005i:65007**)
Necula, Ioana *see* **González-Vega, Laureano et al.**, **2005d:65029**
Parenti, Paola *see* **Fortuna, Elisabetta et al.**, **2005d:14083**
Pasechnik, Dmitrii V. *see* **Grigor'ev, D. Yu.**, **2005m:68262**
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Segundo, Fernando San (*with* Sendra, J. Rafael) Degree formulae for offset curves. (English summary) **2005i:14074**
Sendra, J. Rafael Rational curves and surfaces: algorithms and some applications. (English summary) (*see* **2005c:68006**)
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Shimada, Ichiro Rational double points on supersingular $K3$ surfaces. (English summary) **2005g:14076**
Técourt, Jean-Pierre *see* **Aries, Franck et al.**, (**2005i:65007**)
Traverso, Carlo *see* **Fortuna, Elisabetta et al.**, **2005d:14083**

14Q15 Higher-dimensional varieties

Chen, Xue Feng (*with* Wang, DingKang) The projection of quasi variety and its application on geometric theorem proving and formula deduction. (English summary) (*see* **2005d:68006**)
Chistov, A. L. The polynomial-time computation of the degree of a dominant morphism in characteristic zero. I. (Russian. English and Russian summaries) **2005f:14114**
Jeronimo, Gabriela (*with* Krick, Teresa; Sabia, Juan; Sombra, Martín) The computational complexity of the Chow form. (English summary) **2005c:14083**
Krick, Teresa *see* **Jeronimo, Gabriela et al.**, **2005c:14083**
Sabia, Juan *see* **Jeronimo, Gabriela et al.**, **2005c:14083**
Sombra, Martín *see* **Jeronimo, Gabriela et al.**, **2005c:14083**
Wang, DingKang *see* **Chen, Xue Feng**, (**2005d:68006**)

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Bodnár, Gábor Algorithmic tests for the normal crossing property. (English summary) **2005h:14033**
Galligo, André (*with* Kwieciński, Michał) Continuity loci for polynomial systems. (English summary) **2005d:14003**
Kwieciński, Michał *see* **Galligo, André**, **2005d:14003**

14Q20 Effectivity

Aliashvili, Teimuraz Counting real roots of polynomial endomorphisms. (English summary) **2005c:14084**
Busé, Laurent Resultants of determinantal varieties. (English summary) **2005f:14115**
Heier, Gordon Effective finiteness theorems for maps between canonically polarized compact complex manifolds. (English summary) **2005k:14126**

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Basu, Saugata (*with* Pollack, Richard M.; Roy, Marie-Françoise) Computing the dimension of a semi-algebraic set. (English and Russian summaries) **2005k:14123**
Caboara, Massimo (*with* Kreuzer, Martin; Robbiano, Lorenzo) Efficiently computing minimal sets of critical pairs. (English summary) **2005g:13045**
Chtcherba, Arthur D. (*with* Kapur, Deepak) Constructing Sylvester-type resultant matrices using the Dixon formulation. (English summary) **2005g:13048**
Dokken, Tor (*with* Thomassen, Jan Brede) Overview of approximate implicitization. (English summary) **2005d:65018**

Kapur, Deepak *see* **Chtcherba, Arthur D., 2005g:13048**
Kreuzer, Martin *see* **Caboara, Massimo et al., 2005g:13045**
Pollack, Richard M. *see* **Basu, Saugata et al., 2005k:14123**
Robbiano, Lorenzo *see* **Caboara, Massimo et al., 2005g:13045**
Roy, Marie-Françoise *see* **Basu, Saugata et al., 2005k:14123**
Thomassen, Jan Brede *see* **Dokken, Tor, 2005d:65018**

14Q99 None of the above, but in this section

Busé, Laurent Residual resultant over the projective plane and the implicitization problem. (English summary) **2005a:14083**
Cox, David A. Curves, surfaces, and syzygies. (English summary) **2005g:14113**
Emiris, Ioannis Z. (*with* Kotsireas, Ilias S.) Implicit polynomial support optimized for sparseness. (English summary) (*see* **2005i:00014**)
Gao, Xiao-Shan (*with* Wang, DingKang) Zero decomposition theorems for counting the number of solutions for parametric equation systems. (English summary) **2005e:14094**
Kotsireas, Ilias S. *see* **Emiris, Ioannis Z., (2005i:00014)**
Pardo, Luis Miguel (*with* San Martín H., Jorge) Deformation techniques to solve generalised Pham systems. (English summary) **2005g:14114**
San Martín H., Jorge *see* **Pardo, Luis Miguel, 2005g:14114**
Wang, DingKang *see* **Gao, Xiao-Shan, 2005e:14094**
Zhang, Haï Un système de résultants pour tester la propreté d'une application polynomiale. (French summary) [A system of resultants for testing the properness of a polynomial map] **2005h:14141**

Items with secondary classifications in 14Q99

Dahan, Xavier (*with* Schost, Éric) Sharp estimates for triangular sets. (English summary) **2005m:13038**
Kogan, Irina A. (*with* Moreno Maza, Marc) Computation of canonical forms for ternary cubics. (English summary) **2005e:14072**
Moreno Maza, Marc *see* **Kogan, Irina A., 2005e:14072**
Rojas, J. Maurice Arithmetic multivariate Descartes' rule. (English summary) **2005d:11163**
— (*with* Ye, Yinyu) On solving univariate sparse polynomials in logarithmic time. (English summary) **2005m:12001**
Schost, Éric *see* **Dahan, Xavier, 2005m:13038**
Wang, Dongming Implicitization and offsetting via regular systems. (English summary) **2005d:65031**
Ye, Yinyu *see* **Rojas, J. Maurice, 2005m:12001**

14Rxx Affine geometry

Items with secondary classifications in 14Rxx

(Gutierrez, Jaime) *see* **Affine algebraic geometry, 2005j:14001**
(Shpilrain, Vladimir) *see* **Affine algebraic geometry, 2005j:14001**
(Yu, Jie-Tai) *see* **Affine algebraic geometry, 2005j:14001**

Items listed otherwise than by author

Affine algebraic geometry ★ Affine algebraic geometry. **2005j:14001**
Contemporary Mathematics ★ Affine algebraic geometry. **2005j:14001**
Seville ★ Affine algebraic geometry. **2005j:14001**

14R05 Classification of affine varieties

Kishimoto, Takashi Singularities on normal affine 3-folds containing $\mathbb{A}^1$-cylinderlike open subsets. (English summary) **2005m:14115**
Schröer, Jan Varieties of pairs of nilpotent matrices annihilating each other. (English summary) **2005d:14091**
Shastri, Anant R. Topology of open surfaces: around a landmark result of C. P. Ramanujam. **2005d:14092**

Items with secondary classifications in 14R05

Flenner, Hubert (*with* Zaidenberg, Mikhail) On the uniqueness of $\mathbb{C}^*$-actions on affine surfaces. (English summary) **2005m:14119**
Zaidenberg, Mikhail *see* **Flenner, Hubert, 2005m:14119**

14R10 Affine spaces (automorphisms, embeddings, exotic structures, cancellation problem)

Asanuma, Teruo Purely inseparable k-forms of affine algebraic curves. (English summary) **2005m:14116**
Bodnarchuk, Yu. Generating properties of biparabolic invertible polynomial maps in three variables. (English summary) **2005j:14083**
Cassou-Noguès, Pierrette Bad field generators. (English summary) **2005k:14127**
Cheng, Charles Ching-An (*with* Sakkalis, Takis) Power linear Keller maps of nilpotency index two. (English summary) **2005f:14116**
Cygan, Ewa A note on separation of algebraic sets and the Łojasiewicz exponent for polynomial mappings. (English and French summaries) **2005j:14084**
Dubouloz, Adrien Completions of normal affine surfaces with a trivial Makar-Limanov invariant. **2005g:14115**
Edo, Eric (*with* Furter, Jean-Philippe) Some families of polynomial automorphisms. (English summary) **2005g:14116**
van den Essen, Arno The solution of the tame generators conjecture according to Shestakov and Umirbaev. (English summary) **2005j:14085**
Fernández de Bobadilla de Olazabal, Javier Moduli spaces of polynomials in two variables. (English summary) **2005m:14117**
— A new geometric proof of Jung's theorem on factorisation of automorphisms of $\mathbb{C}^2$. (English summary) **2005g:14117**
Furter, Jean-Philippe *see* **Edo, Eric, 2005g:14116**
Gorinov, A. G. Pseudocomplex and pseudo-(bi)-quaternion mappings. (Russian. Russian summary) **2005h:14142**
Jelonek, Zbigniew On ramification locus of a polynomial mapping. (English summary) **2005c:14085**
Jiang, Guangfeng *see* **Yu, Jianming, 2005k:14129**
Kaliman, Shulim (*with* Zaidenberg, Mikhail) Vénéreau polynomials and related fiber bundles. (English summary) **2005d:14093**
Kishimoto, Takashi On the compactifications of contractible affine threefolds and the Zariski cancellation problem. (English summary) **2005b:14101**
Makar-Limanov, Leonid (*with* van Rossum, Peter; Shpilrain, Vladimir; Yu, Jie-Tai) The stable equivalence and cancellation problems. (English summary) **2005d:14094**
— Again $x + x^2y + z^2 + t^3 = 0$. (English summary) **2005k:14128**
van Rossum, Peter *see* **Makar-Limanov, Leonid et al., 2005d:14094**
Sakkalis, Takis *see* **Cheng, Charles Ching-An, 2005f:14116**
Shpilrain, Vladimir (*with* Yu, Jie-Tai) Birational morphisms of the plane. (English summary) **2005c:14086**
— *see also* **Makar-Limanov, Leonid et al., 2005d:14094**
Skalski, Grzegorz On the Łojasiewicz exponent near the fibre of a polynomial. (English summary) **2005m:14118**
Yu, Jianming (*with* Jiang, Guangfeng) A Zariski pair in affine complex plane. (English summary) **2005k:14129**
Yu, Jie-Tai *see* **Shpilrain, Vladimir, 2005c:14086** *and* **Makar-Limanov, Leonid et al., 2005d:14094**
Zaidenberg, Mikhail *see* **Kaliman, Shulim, 2005d:14093**

Items with secondary classifications in 14R10

de Bondt, Michiel (*with* van den Essen, Arno) Nilpotent symmetric Jacobian matrices and the Jacobian conjecture. (English summary) **2005c:14087**
Bonnet, Philippe Cohomologie des formes différentielles régulières pour les courbes affines. (English and French summaries) [Cohomology of regular differential forms for affine curves] **2005a:14019**
Crachiola, A. (*with* Makar-Limanov, Leonid) On the rigidity of small domains. (English summary) **2005j:13024**
van den Essen, Arno *see* **de Bondt, Michiel, 2005c:14087**
Habeb, J. M. (*with* Hajja, Mowaffaq) Diagonal $\mathbb{Z}$-automorphisms of $\mathbb{Z}(x_1, x_2, \ldots, x_n)$. (English summary) **2005c:13026**
Hajja, Mowaffaq *see* **Habeb, J. M., 2005c:13026**
Kaliman, Shulim Free $\mathbf{C}_+$-actions on $\mathbf{C}^3$ are translations. (English summary) **2005b:14102**
— (*with* Vénéreau, Stéphane; Zaidenberg, Mikhail) Simple birational extensions of the polynomial algebra $\mathbb{C}^{[3]}$. (English summary) **2005d:13033**
Lam, Chi-Ming (*with* Yu, Jie-Tai) Tame and wild coordinates of $\mathbb{Z}[x, y]$. (English summary) **2005d:13034**
Makar-Limanov, Leonid *see* **Crachiola, A., 2005j:13024**
Oblomkov, A. A. Double affine Hecke algebras of rank 1 and affine cubic surfaces. **2005j:20005**
Ramis, Jean-Pierre (*with* Sauloy, Jacques; Zhang, Changgui) La variété des classes analytiques d'équations aux q-différences dans une classe formelle. (English and French summaries) [The variety of analytic classes of q-difference equations within a formal class] **2005d:39089**
Sauloy, Jacques *see* **Ramis, Jean-Pierre et al., 2005d:39089**
Shpilrain, Vladimir (*with* Yu, Jie-Tai) Test polynomials, retracts, and the Jacobian conjecture. (English summary) **2005k:14131**
Snow, Dennis M. The role of exotic affine spaces in the classification of homogeneous affine varieties. **2005f:14097**
Umirbaev, Ualbai U. (*with* Yu, Jie-Tai) The strong Nagata conjecture. (English summary) **2005a:13041**
Vénéreau, Stéphane *see* **Kaliman, Shulim et al., 2005d:13033**
Wang, Zhi Qing[2] Homogeneization of locally nilpotent derivations and an application to $k[X, Y, Z]$. (English summary) [Homogenization of locally nilpotent derivations and an application to $k[X, Y, Z]$] **2005j:13025**
Yu, Jie-Tai *see* **Umirbaev, Ualbai U., 2005a:13041**; **Lam, Chi-Ming, 2005d:13034** *and* **Shpilrain, Vladimir, 2005k:14131**
Zaidenberg, Mikhail *see* **Kaliman, Shulim et al., 2005d:13033**
Zhang, Changgui *see* **Ramis, Jean-Pierre et al., 2005d:39089**

14R15 Jacobian problem

de Bondt, Michiel (*with* van den Essen, Arno) Nilpotent symmetric Jacobian matrices and the Jacobian conjecture. (English summary) **2005c:14087**
— (*with* van den Essen, Arno) Nilpotent symmetric Jacobian matrices and the Jacobian conjecture. II. (English summary) **2005k:14130**
Bystrikov, A. S. On linear chains of blow-ups related to the Jacobian conjecture. (Russian) **2005f:14117**
Cheng, Charles Ching-An Power linear Keller maps of rank two are linearly triangularizable. (English summary) **2005h:14143**
van den Essen, Arno *see* **de Bondt, Michiel, 2005c:14087** *and* **2005k:14130**
Nguyen Van Chau Two remarks on non-zero constant Jacobian polynomial maps of $\mathbb{C}^2$. (English summary) **2005a:14084**
Sakkalis, Takis Polynomial remainders and plane automorphisms. (English summary) **2005a:14085**
Shpilrain, Vladimir (*with* Yu, Jie-Tai) Test polynomials, retracts, and the Jacobian conjecture. (English summary) **2005k:14131**
Yu, Jie-Tai *see* **Shpilrain, Vladimir, 2005k:14131**

Items with secondary classifications in 14R15

Abhyankar, Shreeram S. (*with* Assi, Abdallah) Jacobian pairs. (English summary) **2005b:13040**
Assi, Abdallah *see* **Abhyankar, Shreeram S., 2005b:13040**
Egorov, G. V. Branched coverings over $\mathbb{C}^2$ and the Jacobian conjecture. (Russian. Russian summary) **2005g:14031**

Gorni, Gianluca (*with* Tutaj-Gasińska, Halszka) On the entrywise powers of matrices. (English summary) **2005g:15050**
Tutaj-Gasińska, Halszka *see* **Gorni, Gianluca**, **2005g:15050**
Wang, Zhi Qing[2] Homogeneization of locally nilpotent derivations and an application to $k[X, Y, Z]$. (English summary) [Homogenization of locally nilpotent derivations and an application to $k[X, Y, Z]$] **2005j:13025**

14R20 Group actions on affine varieties [see also 13A50, 14L30]

Flenner, Hubert (*with* Zaidenberg, Mikhail) On the uniqueness of $\mathbb{C}^*$-actions on affine surfaces. (English summary) **2005m:14119**
Freudenburg, Gene (*with* Moser-Jauslin, Lucy) Real and rational forms of certain $O_2(\mathbb{C})$-actions, and a solution to the weak complexification problem. (English summary) **2005h:14144**
Kaliman, Shulim Free $\mathbf{C}_+$-actions on $\mathbf{C}^3$ are translations. (English summary) **2005b:14102**
— (*with* Saveliev, Nikolai) $\mathbf{C}_+$-actions on contractible threefolds. **2005h:14145**
Kraft, Hanspeter Free $\mathbb{C}^+$-actions on affine threefolds. (English summary) **2005m:14120**
Masuda, Kayo Nonlinearizable actions of dihedral groups on affine space. (English summary) **2005d:14095**
Moser-Jauslin, Lucy *see* **Freudenburg, Gene**, **2005h:14144**
Noumi, Masatoshi An introduction to birational Weyl group actions. (English summary) **2005d:14096**
Satō, Kenzi Free isometric actions on the affine space $\mathbb{Q}^n$. (English summary) **2005d:14097**
Saveliev, Nikolai *see* **Kaliman, Shulim**, **2005h:14145**
Zaidenberg, Mikhail *see* **Flenner, Hubert**, **2005m:14119**

Items with secondary classifications in 14R20

Daigle, Daniel (*with* Russell, Peter) On log $\mathbb{Q}$-homology planes and weighted projective planes. (English summary) **2005i:14077**
— Locally nilpotent derivations and Danielewski surfaces. **2005f:13029**
Ito, Yukari The McKay correspondence—a bridge from algebra to geometry. (English summary) **2005c:14015**
Kuroda, Shigeru[1] A generalization of Roberts' counterexample to the fourteenth problem of Hilbert. (English summary) **2005i:13008**
Panyushev, Dmitrii I. On reachable elements and the boundary of nilpotent orbits in simple Lie algebras. (English summary) **2005g:17023**
Reichstein, Zinovy (*with* Vonessen, Nikolaus) Stable affine models for algebraic group actions. (English summary) **2005d:14065**
Riedtmann, Christine (*with* Zwara, Grzegorz) On the zero set of semi-invariants for quivers. (English and French summaries) **2005b:16032**
Russell, Peter *see* **Daigle, Daniel**, **2005i:14077**
Vonessen, Nikolaus *see* **Reichstein, Zinovy**, **2005d:14065**
Zwara, Grzegorz *see* **Riedtmann, Christine**, **2005b:16032**

14R25 Affine fibrations [see also 14D06]

Asanuma, Teruo (*with* Bhatwadekar, Shrikant M.; Onoda, Nobuharu) Generic fibrations by $\mathbf{A}^1$ and $\mathbf{A}^*$ over discrete valuation rings. (English summary) **2005m:14121**
Bhatwadekar, Shrikant M. *see* **Asanuma, Teruo et al.**, **2005m:14121**
Daigle, Daniel (*with* Russell, Peter) On log $\mathbb{Q}$-homology planes and weighted projective planes. (English summary) **2005i:14077**
Onoda, Nobuharu *see* **Asanuma, Teruo et al.**, **2005m:14121**
Russell, Peter *see* **Daigle, Daniel**, **2005i:14077**

Items with secondary classifications in 14R25

Kaliman, Shulim Free $\mathbf{C}_+$-actions on $\mathbf{C}^3$ are translations. (English summary) **2005b:14102**
— (*with* Zaidenberg, Mikhail) Vénéreau polynomials and related fiber bundles. (English summary) **2005d:14093**
— (*with* Vénéreau, Stéphane; Zaidenberg, Mikhail) Simple birational extensions of the polynomial algebra $\mathbb{C}^{[3]}$. (English summary) **2005d:13033**
Nguyen Van Chau Two remarks on non-zero constant Jacobian polynomial maps of $\mathbb{C}^2$. (English summary) **2005a:14084**
Vénéreau, Stéphane *see* **Kaliman, Shulim et al.**, **2005d:13033**
Zaidenberg, Mikhail *see* **Kaliman, Shulim et al.**, **2005d:13033** *and* **2005d:14093**

14R99 None of the above, but in this section

Freudenberg, G. (*with* Russell, Peter) Open problems in affine algebraic geometry. (*see* **2005j:14001**)
Russell, Peter *see* **Freudenberg, G.**, (**2005j:14001**)

Items with secondary classifications in 14R99

Bulajich, Radmila (*with* Kushner, Leon; López de Medrano, Santiago) Cubics in **R** and **C**. **2005e:58067**
Kushner, Leon *see* **Bulajich, Radmila et al.**, **2005e:58067**
López de Medrano, Santiago *see* **Bulajich, Radmila et al.**, **2005e:58067**

15–XX Linear and multilinear algebra; matrix theory

15–01 Instructional exposition (textbooks, tutorial papers, etc.)

Castillo, Enrique F. *see* **Ruíz-Tolosa, Juan Ramón**, **2005g:15001**
Kuznetsov, Yu. I. ★ Матрицы и многочлены. Часть I. (Russian. English and Russian summaries) [Matrices and polynomials. Part I] **2005a:15001**
Laub, Alan J. ★ Matrix analysis for scientists & engineers.
Olver, Peter J. (*with* Shakiban, Chehrzad) ★ Applied linear algebra.
Roman, Steven ★ Advanced linear algebra. **2005j:15001**
Ruíz-Tolosa, Juan Ramón (*with* Castillo, Enrique F.) ★ From vectors to tensors. **2005g:15001**
Schott, James R. ★ Matrix analysis for statistics. **2005h:15001**
Shakiban, Chehrzad *see* **Olver, Peter J.**
Uhlig, Frank ★ Transform linear algebra.

Items with secondary classifications in 15–01

Bernstein, Dennis S. ★ Matrix mathematics. **2005i:93001**
Ray, Asok Kumar[1] Exterior product and applications in multidimensional geometry. **2005i:15049**
Wickless, William ★ A first graduate course in abstract algebra. **2005c:00001**

15–02 Research exposition (monographs, survey articles)

Čížek, Pavel[2] *see* **Čížková, Lenka**, (**2005g:62004**)
Čížková, Lenka (*with* Čížek, Pavel[2]) Numerical linear algebra. (*see* **2005g:62004**)
(Gerschgorin, S. A.) *see* **Varga, Richard S.**, **2005h:15002**
Kociński, Jerzy ★ Cracovian algebra. **2005k:15001**
Varga, Richard S. ★ Geršgorin and his circles. **2005h:15002**

Items with secondary classifications in 15–02

Abdeljaoued, Jounaïdi (*with* Lombardi, Henri) ★ Méthodes matricielles: introduction à la complexité algébrique. (French) [Matrix methods: introduction to algebraic complexity] **2005c:68001**
Lombardi, Henri *see* **Abdeljaoued, Jounaïdi**, **2005c:68001**

15–03 Historical (must also be assigned at least one classification number from Section 01)

Holtz, Olga (*with* Mehrmann, Volker; Schneider, Hans) Potter, Wielandt, and Drazin on the matrix equation $AB = \omega BA$: new answers to old questions. **2005m:15001**
Mehrmann, Volker *see* **Holtz, Olga et al.**, **2005m:15001**
Schneider, Hans *see* **Holtz, Olga et al.**, **2005m:15001**
Yang, Hao Ju A study of the history of Cramer's rule. (Chinese. English and Chinese summaries)

Items with secondary classifications in 15–03

(Gerschgorin, S. A.) *see* **Varga, Richard S.**, **2005h:15002**
Varga, Richard S. ★ Geršgorin and his circles. **2005h:15002**

15–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 15–04

Bartlett, Roscoe A. (*with* van Bloemen Waanders, Bart G.; Heroux, Michael A.) Vector reduction/transformation operators. (English summary) **2005d:65068**
van Bloemen Waanders, Bart G. *see* **Bartlett, Roscoe A. et al.**, **2005d:65068**
Castillo, Enrique F. *see* **Ruíz-Tolosa, Juan Ramón**, **2005g:15001**
Elmroth, Erik (*with* Gustavson, Fred G.; Jonsson, Isak; Kågström, Bo) Recursive blocked algorithms and hybrid data structures for dense matrix library software. (English summary) **2005h:65005**
Gustavson, Fred G. *see* **Elmroth, Erik et al.**, **2005h:65005**
Heroux, Michael A. *see* **Bartlett, Roscoe A. et al.**, **2005d:65068**
Jonsson, Isak *see* **Elmroth, Erik et al.**, **2005h:65005**
Kågström, Bo *see* **Elmroth, Erik et al.**, **2005h:65005**
Ruíz-Tolosa, Juan Ramón (*with* Castillo, Enrique F.) ★ From vectors to tensors. **2005g:15001**

15–06 Proceedings, conferences, collections, etc.

Abłamowicz, Rafał (*with* Baylis, William E.; Branson, Thomas; Lounesto, Pertti; Porteous, Ian; Ryan, John; Selig, J. M.; Sobczyk, Garret) ★ Lectures on Clifford (geometric) algebras and applications. **2005d:15001**
Baylis, William E. *see* **Abłamowicz, Rafał et al.**, **2005d:15001**
Berman, Abraham (*with* Laffey, Thomas J.) Preface [2004 Workshop on Nonnegative Matrices].
Branson, Thomas *see* **Abłamowicz, Rafał et al.**, **2005d:15001**
Laffey, Thomas J. *see* **Berman, Abraham**
Li, Chi-Kwong (*with* Tam, Tin-Yau) Editorial [Special issue on the numerical range and numerical radius].
— (*with* Woerdeman, Hugo J.; Zhang, Fuzhen) Preface and conference report [Special issue devoted to papers presented at the International Meeting on Matrix Analysis and Applications].
Lounesto, Pertti *see* **Abłamowicz, Rafał et al.**, **2005d:15001**
Porteous, Ian *see* **Abłamowicz, Rafał et al.**, **2005d:15001**
Ryan, John *see* **Abłamowicz, Rafał et al.**, **2005d:15001**
Selig, J. M. *see* **Abłamowicz, Rafał et al.**, **2005d:15001**
Sobczyk, Garret *see* **Abłamowicz, Rafał et al.**, **2005d:15001**
Tam, Tin-Yau *see* **Li, Chi-Kwong**
Woerdeman, Hugo J. *see* **Li, Chi-Kwong et al.**
Zhang, Fuzhen *see* **Li, Chi-Kwong et al.**

Items listed otherwise than by author

Conference:
Matrix Theory and its Applications in China, 6th International ★ The Sixth International Conference on Matrix Theory and its Applications in China.
Harbin ★ The Sixth International Conference on Matrix Theory and its Applications in China.
Lectures on Clifford (geometric) algebras and applications *see* **Abłamowicz, Rafał et al.**, **2005d:15001**

Items with secondary classifications in 15–06

Dellnitz, Michael (*with* Kirkland, Steve; Neumann, Michael; Schütte, Christof) Preface [Special issue on matrices and mathematical biology].
Kirkland, Steve *see* **Dellnitz, Michael et al.**
Neumann, Michael *see* **Dellnitz, Michael et al.**
Schütte, Christof *see* **Dellnitz, Michael et al.**

15A03 Vector spaces, linear dependence, rank

Alieva, Anna A. (*with* Guterman, Alexander E.) Linear mappings that preserve rank commutativity. (Russian. Russian summary) **2005h:15003**
— (*with* Guterman, Alexander E.) Linear preservers of rank permutability. (English summary) **2005d:15002**
Beasley, LeRoy B. *see* **Song, Seok Zun et al.**, **2005a:15003**
Beran, Ladislav A new simple approach to linear dependence. (English, French and Czech summaries)
ten Berge, Jos M. F. (*with* Sidiropoulos, Nicholas D.; Rocci, Roberto) Typical rank and INDSCAL dimensionality for symmetric three-way arrays of order $I \times 2 \times 2$ or $I \times 3 \times 3$. (English summary) **2005j:15002**
Berman, Abraham (*with* Laffey, Thomas J.) Similarity classes and principal submatrices. (English summary) **2005m:15002**
de Boor, Carl R. What is the inverse of a basis? (English summary) **2005b:15001**
Bu, Chang Jiang (*with* Cao, Chong Guang) Additive maps preserving group inverses of matrices over fields. (Chinese. English and Chinese summaries)
Butkovič, P. *see* **Cuninghame-Green, R. A.**, **2005h:15004**
Cao, Chong Guang *see* **Bu, Chang Jiang**
Cheon, Gi-Sang *see* **Song, Seok Zun et al.**, **2005a:15003**
Cuninghame-Green, R. A. (*with* Butkovič, P.) Bases in max-algebra. (English summary) **2005h:15004**
Dana, M. (*with* Ikramov, Kh. D.) On low-rank corrections of Hermitian and unitary matrices. (Russian. Russian summary) **2005k:15002**
Eicker, Friedhelm (*with* Ewald, Günter) Linearly independent set families. (English summary) **2005m:15003**
Ewald, Günter *see* **Eicker, Friedhelm**, **2005m:15003**
Fortin, Marc (*with* Reutenauer, Christophe) Commutative/noncommutative rank of linear matrices and subspaces of matrices of low rank. (English summary) **2005j:15003**
Guo, Yu Qi (*with* Shum, Kar Ping) n-independent subsets of n-dimensional vector spaces. (English summary) **2005c:15001**
Guterman, Alexander E. *see* **Alieva, Anna A.**, **2005d:15002** *and* **2005h:15003**
Ikramov, Kh. D. *see* **Dana, M.**, **2005k:15002**
Jiang, Yong Quan Applications of coprime polynomials to ranks of matrixes. (Chinese. English and Chinese summaries)
Jun, Young Bae *see* **Song, Seok Zun et al.**, **2005a:15003**
Kang, Kyung-Tae *see* **Song, Seok Zun**, **2005g:15002**
Laffey, Thomas J. *see* **Berman, Abraham**, **2005m:15002**
Legiša, Peter Automorphisms of M_n, partially ordered by rank subtractivity ordering. (English summary) **2005i:15001**
Lemmerling, P. *see* **Schuermans, M. et al.**, **2005d:15003**
Liu, Yong Hui[1] (*with* Wei, Mu Sheng) Rank equalities for submatrices in generalized inverse $M_{T,S}^{(2)}$ of M. (English summary) **2005f:15001**
Markov, Svetoslav M. On quasilinear spaces of convex bodies and intervals. (English summary) **2005a:15002**
Ren, Ling-Zhi *see* **Shao, Jia Yu**, **2005d:15004**
Reutenauer, Christophe *see* **Fortin, Marc**, **2005j:15003**
Rocci, Roberto *see* **ten Berge, Jos M. F. et al.**, **2005j:15002**
Schuermans, M. (*with* Lemmerling, P.; Van Huffel, Sabine) Structured weighted low rank approximation. (English summary) **2005d:15003**
Shao, Jia Yu (*with* Ren, Ling-Zhi) Some properties of matrices with signed null spaces. (English summary) **2005d:15004**
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15A36 Matrices of integers [see also 11C20]

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15A57 Other types of matrices (Hermitian, skew-Hermitian, etc.)

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16–XX Associative rings and algebras {For the commutative case, see 13–XX.}

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16–02 Research exposition (monographs, survey articles)

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16–03 Historical (must also be assigned at least one classification number from Section 01)

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16Bxx General and miscellaneous

16B50 Category-theoretic methods and results (except as in 16D90) [see also 18–XX]

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16B70 Applications of logic [see also 03Cxx]

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16B99 None of the above, but in this section

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16Dxx Modules, bimodules and ideals

16D10 General module theory

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16D20 Bimodules

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16D25 Ideals

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Törner, G. *see* **Mazurek, Ryszard, 2005j:16003**
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Brešar, Matej (*with* Eremita, Daniel; Wong, Tsai-Lien) On commutators and derivations in rings. (English summary) **2005d:16056**
Chinram, Ronnason (*with* Kemprasit, Yupaporn) Some generalized rings of upper triangular matrices having the intersection property of quasi-ideals. (English summary) **2005j:16024**
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Ferrero, Miguel A. *see* **Cortes, Wagner, 2005i:16055**
Irawati, Santi (*with* Marubayashi, Hidetoshi; Kobayashi, Shigeru; Xie, Guangming[2]) A characterization of fully bounded Dubrovin valuation rings. (English summary) **2005f:16075**
Jain, Surender Kumar *see* **Beidar, Konstantin I., 2005d:16011**
Ji, Pei Sheng (*with* Wang, Lin[4]) Closed Lie ideals in the GICAR algebra. (Chinese. English and Chinese summaries) **2005m:47145**
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16D30 Infinite-dimensional simple rings (except as in 16Kxx)

Cohn, P. M. On n-simple rings.

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Bazzoni, Silvana n-cotilting modules and pure-injectivity. (English summary) **2005d:16012**
Zhou, De-xu On n-coherent rings and (n, d)-rings. (English summary) **2005h:16004**

16D40 Free, projective, and flat modules and ideals [see also 19A13]

Ahsan, Javed *see* **Liu, Zhong Kui, 2005c:16003**
Caenepeel, Stefaan (*with* Guédénon, Thomas) Projectivity and flatness over the endomorphism ring of a finitely generated module. (English summary) **2005e:16003**
Cao, Yongzhi On the projective-injective modules over cellular algebras. (English summary) **2005e:16004**
Enochs, Edgar E. (*with* Jenda, Overtoun M. G.; López-Ramos, J. A.) The existence of Gorenstein flat covers. (English summary) **2005b:16005**
Fang, Ai Xiang Quasi-principally projective modules. (Chinese. English and Chinese summaries)
Guédénon, Thomas *see* **Caenepeel, Stefaan, 2005e:16003**
Gupta, Ashok Ji *see* **Pandeya, B. M., 2005i:16004**
Izurdiaga, M. C. Supplement submodules and a generalization of projective modules. **2005d:16007**
Jenda, Overtoun M. G. *see* **Enochs, Edgar E. et al., 2005b:16005**
Le Van Thuyet *see* **Minh, Pham Van, 2005h:16007**
Liu, Zhong Kui (*with* Ahsan, Javed) On $(\aleph, U)$-coherence of modules and rings. (English summary) **2005c:16003**
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Minh, Pham Van (*with* Le Van Thuyet) A generalization of projective modules. (English summary) **2005h:16007**
Pandeya, B. M. (*with* Gupta, Ashok Ji) Characterization of rings using direct projective modules. (English summary) **2005i:16004**
Puninskiĭ, G. E. (*with* Rothmaler, Philipp) When every finitely generated flat module is projective. (English summary) **2005c:16004**
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Rothmaler, Philipp *see* **Puninskiĭ, G. E., 2005c:16004**
Sinha, Arvind Kumar (*with* Ranadive, A. S.) Pure M-injective modules. (English summary)
Wu, Tong Suo Further results on finitely generated projective modules [MR1910958 (2003i:16005)]. (Chinese. English and Chinese summaries)
Ye, Ding-feng *see* **Yue, Qin[1], 2005d:16008**
Yue, Qin[1] (*with* Ye, Ding-feng) On lifting projective modules modulo an essential socle. (English summary) **2005d:16008**
Yue Chi Ming, Roger On injectivity, p-injectivity and YJ-injectivity. (English summary) **2005i:16005**
Zhu, Hong Ying[2] A generalized flat module. (Chinese. English and Chinese summaries)

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Cho, Eunha *see* **Park, Sangwon, 2005m:16005**
Crivei, Iuliu Generalized RD-pure-injectivity and RD-flatness. (English summary)
Dauns, John (*with* Fuchs, László[1]) Torsion-freeness for rings with zero-divisors. (English summary) **2005h:16005**
Fuchs, László[1] *see* **Dauns, John, 2005h:16005**
Idelhadj, Abdelouahab (*with* Kaidi, El Amin; Martín Barquero, Dolores; Martín González, Cándido) Rings whose class of projective modules is socle fine. (English summary) **2005g:16002**
Kaidi, El Amin *see* **Idelhadj, Abdelouahab et al., 2005g:16002**
Li, Qi Sheng[1] *see* **Lu, Dan-cheng et al., 2005h:16015**
Lu, Dan-cheng (*with* Li, Qi Sheng[1]; Tong, Wen-ting) Comparability, stability, and completions of ideals. (English summary) **2005h:16015**
Martín Barquero, Dolores *see* **Idelhadj, Abdelouahab et al., 2005g:16002**
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Park, Sangwon (*with* Cho, Eunha) Injective and projective properties of $R[x]$-modules. (English summary) **2005m:16005**
Ringel, Claus Michael Free submodules of indecomposable modules. (English summary) **2005c:16029**
Sharko, V. V. Additive functions and chain complexes of projective modules. (Russian. English and Ukrainian summaries) **2005d:16014**
Smith, Patrick F. Modules with many homomorphisms. (English summary) **2005i:16003**
Sun, Jian Hua[2] *see* **Wei, Jun Chao**
Timoshenko, E. A. T-radicals in the category of modules. (English summary) **2005m:16002**
Tong, Wen-ting *see* **Lu, Dan-cheng et al., 2005h:16015**
Wei, Jun Chao (*with* Sun, Jian Hua[2]) Weakly dual rings. (English summary)
Yue Chi Ming, Roger On YJ-injectivity and VNR rings. (English summary) **2005h:16008**

16D50 Injective modules, self-injective rings [see also 16L60]

Bocian, Rafał (*with* Holm, Thorsten; Skowroński, Andrzej) Derived equivalence classification of weakly symmetric algebras of Euclidean type. (English summary) **2005d:16009**
Chen, Jianlong *see* **Zhang, Xiaoxiang et al., 2005k:16007**
Chien, Nguyen (*with* Le Van Thuyet) On EF-extending modules. (English summary) **2005c:16005**
Cho, Eunha *see* **Park, Sangwon, 2005m:16005**
Chotchaisthit, Somchit (*with* Niyamosot, Twinsri; Nguyen Van Sanh) On serial quasi-p-injective modules. (English summary) **2005a:16006**
Crivei, Iuliu Generalized RD-pure-injectivity and RD-flatness. (English summary)
Ding, Nanqing *see* **Xiao, Guangshi et al., 2005i:16006** *and* **Mao, Lixin, 2005k:16005**
Dinh, Hai Quang A note on pseudo-injective modules. (English summary) **2005j:16004**
Du, Xian Neng *see* **Zhao, Yu-e**
Guil Asensio, Pedro A. (*with* Herzog, Ivo) Left cotorsion rings. (English summary) **2005c:16006**
Herzog, Ivo *see* **Guil Asensio, Pedro A., 2005c:16006**
Holm, Thorsten *see* **Bocian, Rafałet al., 2005d:16009**
Khurana, Dinesh A note on simple injective and mininjective rings. (English summary)
Krylov, P. A. (*with* Pakhomova, E. G.) When is the group $\mathrm{Hom}(A, B)$ an injective $E(B)$-module? (Russian. Russian summary) **2005a:16007**
Le Van Thuyet *see* **Chien, Nguyen, 2005c:16005**
Li, Zhen Zhu Gr-reflexivity of graded W^n-modules over Gr-coherent rings. (Chinese. English and Chinese summaries)
Liang, Li[2] Some studies on AGP-injective rings. (Chinese. English and Chinese summaries)
López-Permouth, Sergio R. (*with* Shum, Kar Ping; Nguyen Van Sanh) Kasch modules and pV-rings. (English summary) **2005k:16004**
Mao, Lixin (*with* Ding, Nanqing) Notes on cotorsion modules. (English summary) **2005k:16005**
Momtahan, Ehsan On $\aleph_0$-injectivity. (English summary) **2005j:16005**
Nguyen Van Sanh *see* **Chotchaisthit, Somchit et al., 2005a:16006** *and* **López-Permouth, Sergio R. et al., 2005k:16004**
Niyamosot, Twinsri *see* **Chotchaisthit, Somchit et al., 2005a:16006**
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Park, Sangwon (*with* Cho, Eunha) Injective and projective properties of $R[x]$-modules. (English summary) **2005m:16005**
Pikhtil′kov, S. A. On the epimorphism of injective hulls. (Russian. Russian summary) **2005d:16010**
Pogorzały, Zygmunt Auslander-Reiten orbit algebras for self-injective Nakayama algebras. (English summary) **2005m:16006**
Puninskiĭ, G. E. When a super-decomposable pure-injective module over a serial ring exists. (English summary) **2005b:16006**
Saleh, Mohammad A. On Q.F.D. modules and Q.F.D. rings. (English summary)
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Tercan, Adnan Eventually weak (C_{11}) modules and matrix (C_{11}) rings. (English summary) **2005c:16007**
Tokashiki, Takashi *see* **Sumioka, Takeshi, 2005k:16006**
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Wang, Ming Yi *see* **Yu, Bo Lin**
Wei, Jun Chao (*with* Sun, Jian Hua[2]) Weakly dual rings. (English summary)
Xiao, Guangshi (*with* Ding, Nanqing; Tong, Wen-ting) Regularity of AP-injective rings. (English summary) **2005i:16006**
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Beidar, Konstantin I. (*with* Jain, Surender Kumar) The structure of right continuous right π-rings. (English summary) **2005d:16011**
Białkowski, Jerzy Cartan matrices of selfinjective algebras of tubular type. (English summary) **2005c:16027**
— Computational details. Appendix to the article: "Cartan matrices of selfinjective algebras of tubular type" [Cent. Eur. J. Math. **2** (2004), no. 1, 123–142 (electronic); MR2041674 (2005c:16027)]. (English summary) **2005c:16028**
— (*with* Skowroński, Andrzej) Socle deformations of selfinjective algebras of tubular type. (English summary) **2005c:16018**
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Cao, Yongzhi On the projective-injective modules over cellular algebras. (English summary) **2005e:16004**
Chen, Jianlong (*with* Ding, Nanqing; Yousif, Mohamed F.) On generalizations of PF-rings. (English summary) **2005m:16028**
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Er, Noyan Artinian rings characterized by direct sums of CS modules. (English summary) **2005i:16009**
Generalov, A. I. Cohomology of algebras of semidihedral type. IV. (Russian. English and Russian summaries) **2005k:16019**
Haghany, A. (*with* Vedadi, M. R.) Endoprime modules. (English summary) **2005k:16043**
Iovanov, Miodrag-Cristian Characterization of PF rings by the finite topology on duals of R modules. (English summary) **2005f:16076**

Jain, Surender Kumar *see* **Beidar, Konstantin I., 2005d:16011**
Lam, T. Y. A crash course on stable range, cancellation, substitution and exchange. (English summary) **2005g:16007**
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— (*with* Yamagata, Kunio) On invariability of self-injective algebras of tilted type under stable equivalences. (English summary) **2005c:16031**
— *see also* **Białkowski, Jerzy, 2005c:16018** *and* **Bocian, Rafał, 2005h:16018**
Vedadi, M. R. *see* **Haghany, A., 2005k:16043**
Wu, Zhi Xiang (*with* Shum, Kar Ping) Properties and characterization theorems of SAP-rings. (English summary) **2005e:16018**
Yamagata, Kunio *see* **Skowroński, Andrzej, 2005c:16031**
Yousif, Mohamed F. (*with* Zhou, Yi Qiang) FP-injective, simple-injective, and quasi-Frobenius rings. (English summary) **2005i:16032**
— *see also* **Nicholson, W. K., 2005b:16042** *and* **Chen, Jianlong et al., 2005m:16028**
Yue Chi Ming, Roger On injectivity, p-injectivity and YJ-injectivity. (English summary) **2005i:16005**
Zelenov, S. V. *see* **Balaba, I. N. et al., 2005d:16074**
Zhou, Yi Qiang *see* **Yousif, Mohamed F., 2005i:16032**
Zwara, Grzegorz *see* **Skowroński, Andrzej, 2005d:16025**

16D60 Simple and semisimple modules, primitive rings and ideals

Bae, Soon-Sook Openly semiprimitive projective module. (English summary) **2005g:16006**
Limarenko, S. V. Weakly primitive superrings. (Russian. English and Russian summaries) **2005k:16008**

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El Kaoutit, L. (*with* Gómez-Torrecillas, José; Lobillo, F. J.) Semisimple corings. (English summary) **2005m:16047**
Gómez-Torrecillas, José *see* **El Kaoutit, L. et al., 2005m:16047**
Haghany, A. (*with* Vedadi, M. R.) Endoprime modules. (English summary) **2005k:16043**
Lobillo, F. J. *see* **El Kaoutit, L. et al., 2005m:16047**
Praton, Iwan Primitive ideals of Noetherian down-up algebras. (English summary) **2005i:16047**
Vedadi, M. R. *see* **Haghany, A., 2005k:16043**
Wu, Tong Suo Further results on finitely generated projective modules [MR1910958 (2003i:16005)]. (Chinese. English and Chinese summaries)

16D70 Structure and classification (except as in 16Gxx), direct sum decomposition, cancellation

Beidar, Konstantin I. (*with* Jain, Surender Kumar) The structure of right continuous right π-rings. (English summary) **2005d:16011**
Çalışıcı, Hamza (*with* Pancar, A.) $\oplus$-confinitely supplemented modules. (English summary) **2005h:16009**
Dauns, John (*with* Zhou, Yi Qiang) Type submodules and direct sum decompositions of modules. (English summary) **2005j:16006**
Facchini, Alberto (*with* Herbera, Dolors) Modules with only finitely many direct sum decompositions up to isomorphism. (English summary) **2005c:16008**
— The Krull-Schmidt theorem. **2005c:16009**
— (*with* Herbera, Dolors) Two results on modules whose endomorphism ring is semilocal. (English summary) **2005i:16007**
— Geometric regularity of direct-sum decompositions in some classes of modules. (Russian. English and Russian summaries) **2005m:16007**
Herbera, Dolors *see* **Facchini, Alberto, 2005c:16008** *and* **2005i:16007**
Jain, Surender Kumar *see* **Beidar, Konstantin I., 2005d:16011**
Khabazian, Hossain Unique decomposition of a ring into the product of certain rings. (English summary)
Lam, T. Y. A crash course on stable range, cancellation, substitution and exchange. (English summary) **2005g:16007**
Matsuura, Masaya An axiomatic approach to block decompositions of rings. (English summary) **2005i:16008**
Mohamed, Saad H. (*with* Müller, Bruno J.) Co-ojective modules. (English summary) **2005h:16010**
Müller, Bruno J. *see* **Mohamed, Saad H., 2005h:16010**
Nguyễn Việt Dũng[2] On the finite type of families of indecomposable modules. (English summary) **2005f:16006**
Pancar, A. *see* **Çalışıcı, Hamza, 2005h:16009**
Příhoda, Pavel Weak Krull-Schmidt theorem and direct sum decompositions of serial modules of finite Goldie dimension. (English summary) **2005e:16005**
Tercan, Adnan Weak (C_{11}) modules and algebraic topology type examples. **2005j:16007**
Zhou, Yi Qiang *see* **Dauns, John, 2005j:16006**

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Abyzov, A. N. Weakly regular modules. (Russian) **2005c:16015**
Bae, Soon-Sook Openly semiprimitive projective module. (English summary) **2005g:16006**
Chen, Huan Yin (*with* Chen, Miaosen) Simple extensions of regular rings. (English summary) **2005f:16013**
Chen, Miaosen *see* **Chen, Huan Yin, 2005f:16013**
Chien, Nguyen (*with* Le Van Thuyet) On EF-extending modules. (English summary) **2005c:16005**
Chotchaisthit, Somchit (*with* Niyamosot, Twinsri; Nguyen Van Sanh) On serial quasi-p-injective modules. (English summary) **2005a:16006**
Crivei, Septimiu On τ-complemented modules. (English summary) **2005d:16050**
Facchini, Alberto (*with* Wiegand, Roger) Direct-sum decompositions of modules with semilocal endomorphism rings. **2005d:20106**
Gómez Pardo, José L. (*with* Guil Asensio, Pedro A.) Indecomposable decompositions of CS-modules. **2005f:16004**
Guil Asensio, Pedro A. *see* **Gómez Pardo, José L., 2005f:16004**
Hille, Lutz Minimal infinite configurations for strictly filtered $k[T]/T^n$-modules and parabolic groups actions. (English summary) **2005g:16020**
Jain, Surender Kumar (*with* Kanwar, Pramod; Srivastava, J. B.) Survey of some recent results on CS-group algebras and open questions. **2005k:16056**
Johnson, F. E. A. Minimal 2-complexes and the D(2)-problem. (English summary) **2005c:55001**
Kanwar, Pramod *see* **Jain, Surender Kumar et al., 2005k:16056**
Kępczyk, M. (*with* Puczyłowski, E. R.) On the structure of rings which are sums of two subrings. (English summary) **2005h:16006**
Le Van Thuyet *see* **Chien, Nguyen, 2005c:16005**
Li, Qi Sheng[1] *see* **Lu, Dan-cheng et al., 2005h:16015**
Lu, Dan-cheng (*with* Li, Qi Sheng[1]; Tong, Wen-ting) Comparability, stability, and completions of ideals. (English summary) **2005h:16015**
Mazurek, Ryszard (*with* Törner, G.) Comparizer ideals of rings. (English summary) **2005j:16003**
Naghipour, A. R. (*with* Yamini, Amir H.) A generalization of the Jacobson radical. (English summary) **2005g:16035**
Nguyen Van Sanh *see* **Chotchaisthit, Somchit et al., 2005a:16006**
Niyamosot, Twinsri *see* **Chotchaisthit, Somchit et al., 2005a:16006**
Özcan, A. Çiğdem Direct sums of modules having (S^*). (English summary) **2005b:16003**
Puczyłowski, E. R. *see* **Kępczyk, M., 2005h:16006**
Puninskiĭ, G. E. Superdecomposable pure-injective modules exist over some string algebras. (English summary) **2005f:16026**
Ringel, Claus Michael Foundation of the representation theory of Artin algebras, using the Gabriel-Roiter measure. **2005g:16021**
— Free submodules of indecomposable modules. (English summary) **2005c:16029**
Rizvi, S. Tariq (*with* Roman, Cosmin S.) Baer and quasi-Baer modules. (English summary) **2005e:16006**
Roman, Cosmin S. *see* **Rizvi, S. Tariq, 2005e:16006**
Shum, Kar Ping *see* **Wu, Zhi Xiang, 2005e:16018**
Srivastava, J. B. *see* **Jain, Surender Kumar et al., 2005k:16056**
Talebi, Y. (*with* Vanaja, N.) Copolyform Σ-lifting modules. (English summary) **2005d:16005**
Tong, Wen-ting *see* **Lu, Dan-cheng et al., 2005h:16015**
Törner, G. *see* **Mazurek, Ryszard, 2005j:16003**
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Wiegand, Roger *see* **Facchini, Alberto, 2005d:20106**
Wu, Zhi Xiang (*with* Shum, Kar Ping) Properties and characterization theorems of SAP-rings. (English summary) **2005e:16018**
Yamini, Amir H. *see* **Naghipour, A. R., 2005g:16035**

16D80 Other classes of modules and ideals [see also 16G50]

Beidar, Konstantin I. (*with* Fong, Yuen; Puczyłowski, E. R.) On essential extensions of reduced rings and domains. (English summary) **2005g:16008**
Er, Noyan Artinian rings characterized by direct sums of CS modules. (English summary) **2005i:16009**
Fong, Yuen *see* **Beidar, Konstantin I. et al., 2005g:16008**
Lee, Tsiu-Kwen (*with* Zhou, Yi Qiang) Reduced modules. (English summary) **2005h:16011**
Puczyłowski, E. R. *see* **Beidar, Konstantin I. et al., 2005g:16008**
Rizvi, S. Tariq (*with* Roman, Cosmin S.) Baer and quasi-Baer modules. (English summary) **2005e:16006**
Roman, Cosmin S. *see* **Rizvi, S. Tariq, 2005e:16006**
Zhou, Yi Qiang *see* **Lee, Tsiu-Kwen, 2005h:16011**

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Behboodi, M. (*with* Karamzadeh, O. A. S.; Koohy, H.) Modules whose certain submodules are prime. (English summary) **2005h:16002**
Beidar, Konstantin I. (*with* Jain, Surender Kumar) The structure of right continuous right π-rings. (English summary) **2005d:16011**
Bican, Ladislav Relatively exact modules. (English summary) **2005f:16049**
Bland, Paul E. (*with* Smith, Patrick F.) Injective and projective modules relative to a torsion theory. (English summary) **2005c:16047**
Chien, Nguyen (*with* Le Van Thuyet) On EF-extending modules. (English summary) **2005c:16005**
Chotchaisthit, Somchit (*with* Niyamosot, Twinsri; Nguyen Van Sanh) On serial quasi-p-injective modules. (English summary) **2005a:16006**
Jain, Surender Kumar *see* **Beidar, Konstantin I., 2005d:16011**
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16D90 Module categories [see also 16Gxx, 16S90]; module theory in a category-theoretic context; Morita equivalence and duality

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16E05 Syzygies, resolutions, complexes

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16E10 Homological dimension

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16E20 Grothendieck groups, K-theory, etc. [see also 18F30, 19Axx, 19D50]

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16E30 Homological functors on modules (Tor, Ext, etc.)

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16E50 von Neumann regular rings and generalizations

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16E60 Semihereditary and hereditary rings, free ideal rings, Sylvester rings, etc.

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16Gxx Representation theory of rings and algebras

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Trepode, Sonia *see* **de la Peña, José A.**, **2005g:16030** *and* **Assem, Ibrahim et al.**, **2005i:16019**
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16G30 Representations of orders, lattices, algebras over commutative rings [see also 16H05]

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Butler, M. C. R. (*with* Campbell, John Malcolm; Kovács, L. G.) On infinite rank integral representations of groups and orders of finite lattice type. (English summary) **2005g:16026**
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— *see also* **Kirichenko, V. V. et al.**, **2005d:16030**
Dokuchaev, M. A. *see* **Chernousova, Zh. T. et al.**, **2005c:16024** *and* **2005c:16025**
Iyama, Osamu On Hall algebras of hereditary orders. (English summary) **2005i:16027**
Khibina, M. A. *see* **Chernousova, Zh. T. et al.**, **2005c:16024** *and* **2005c:16025**
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Kovács, L. G. *see* **Butler, M. C. R. et al.**, **2005g:16026**
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Miroshnichenko, S. G. *see* **Chernousova, Zh. T. et al.**, **2005c:16024**; **2005c:16025** *and* **Kirichenko, V. V. et al.**, **2005d:16030**
Rump, Wolfgang Large indecomposables over representation-infinite orders and algebras. (English summary) **2005i:16028**
Van de Weyer, Geert *see* **Bocklandt, Raf et al.**, **2005e:16029**
Zhuravl′ov, Vīktor M. *see* **Chernousova, Zh. T. et al.**, **2005c:16024**; **2005c:16025** *and* **Kirichenko, V. V. et al.**, **2005d:16030**
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16G50 Cohen-Macaulay modules

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Miroshnichenko, S. G. *see* **Kirichenko, V. V. et al.**, **2005d:16030**
Rump, Wolfgang L-functors and almost split sequences. (English summary) **2005k:16037**
Zhuravl′ov, Vīktor M. *see* **Kirichenko, V. V. et al.**, **2005d:16030**

16G60 Representation type (finite, tame, wild, etc.)

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— Cartan matrices of selfinjective algebras of tubular type. (English summary) **2005c:16027**
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Rump, Wolfgang Large indecomposables over representation-infinite orders and algebras. (English summary) **2005i:16028**
Simson, Daniel On coalgebras of tame comodule type. **2005f:16066**
Skowroński, Andrzej *see* **Bobiński, Grzegorz et al.**, **2005b:16037**; **2005e:16020**; **Białkowski, Jerzy**, **2005c:16018**; **Leszczyński, Zbigniew**, **2005c:16022** *and* **Bocian, Rafał**, **2005m:16016**
Yang, Shi Lin Representations of simple pointed Hopf algebras. (English summary) **2005c:16061**
Yao, Hai Lou (*with* Ping, Yan-ru) On sectional cycles in translation quivers. (English and

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Zavadskiĭ, A. G. Tame equipped posets. (English summary) **2005a:16024**
— *see also* **Medina, Gonzalo**, **2005m:16021**
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Zhu, Bin[1] (*with* Caenepeel, Stefaan) On good filtration dimensions for standardly stratified algebras. (English summary) **2005k:16017**

16G70 Auslander-Reiten sequences (almost split sequences) and Auslander-Reiten quivers

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Bautista, Raymundo The category of morphisms between projective modules. (English summary) **2005m:16025**
Bobiński, Grzegorz (*with* Skowroński, Andrzej) On a family of vector space categories. (English summary) **2005b:16037**
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Huang, Li Hong[2] (*with* Kang, Na; Yao, Hai Lou) Complements of almost complete exceptional sequences. (Chinese. English and Chinese summaries) **2005b:16038**
Kang, Na *see* **Huang, Li Hong**[2] **et al.**, **2005b:16038**
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de la Peña, José A. (*with* Trepode, Sonia) Quasitilted one-point extensions of tilted algebras. **2005g:16030**
Platzeck, María Inés *see* **Chaio, Claudia et al.**, **2005h:16023**
Reiten, Idun (*with* Skowroński, Andrzej) Generalized double tilted algebras. (English summary) **2005b:16039**
Rump, Wolfgang L-functors and almost split sequences. (English summary) **2005k:16037**
Skowroński, Andrzej (*with* Yamagata, Kunio) On invariability of self-injective algebras of tilted type under stable equivalences. (English summary) **2005c:16031**
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Smalø, Sverre O. *see* **Coelho, Flávio Ulhoa**, **2005g:16029**
Smith, David On generalized standard Auslander-Reiten components having only finitely many non-directing modules. (English summary) **2005d:16031**
Trepode, Sonia *see* **de la Peña, José A.**, **2005g:16030** *and* **Chaio, Claudia et al.**, **2005h:16023**
Yamagata, Kunio *see* **Skowroński, Andrzej**, **2005c:16031**
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Coelho, Flávio Ulhoa (*with* Martins, Ma. I. R.; Tomé, Bertha) Strongly simply connected coil algebras. (English summary) **2005h:16020**
— (*with* Savioli, Angela Marta P. D.) On shod extensions of algebras. (English summary) **2005m:16020**
Iyama, Osamu The relationship between homological properties and representation theoretic realization of Artin algebras. (English summary) **2005f:16018**
Jagadeeshan, Shashidhar (*with* Kleiner, Mark) Pullbacks and a generalization of hereditary algebras. (English summary) **2005e:16021**
Jørgensen, Peter Auslander-Reiten theory over topological spaces. (English summary) **2005b:55022**
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Lanzilotta, Marcelo *see* **Assem, Ibrahim**, **2005i:16022**
Lenzing, Helmut (*with* de la Peña, José A.) Supercanonical algebras. **2005i:16024**
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Li, Si Ze (*with* Li, Chuan Qi) Preprojective components and τ-preprojective components of an algebra. (Chinese. English and Chinese summaries) **2005g:16023**
Liu, Shi Ping[1] Preprojective modules and Auslander-Reiten components. (English summary) **2005h:16022**
Martins, Ma. I. R. *see* **Coelho, Flávio Ulhoa et al.**, **2005h:16020**
Mei, Cao Qun Structure of necklace Lie algebras. (Chinese. English and Chinese summaries) **2005d:17029**
Nagase, Hiroshi[2] τ-wild algebras. **2005e:16031**
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Ringel, Claus Michael The diamond category of a locally discrete ordered set. **2005i:16025**
Savioli, Angela Marta P. D. *see* **Coelho, Flávio Ulhoa**, **2005m:16020**
Schiffler, Ralf Projective rational smoothness of varieties of representations for quivers of type A. (English summary) **2005c:17021**
Simson, Daniel On coalgebras of tame comodule type. **2005f:16066**
Tomé, Bertha *see* **Coelho, Flávio Ulhoa et al.**, **2005h:16020**
Unger, Luise (*with* Ungruhe, Michael) On the genus of the graph of tilting modules. **2005f:16027**
Ungruhe, Michael *see* **Unger, Luise**, **2005f:16027**
Zacharia, Dan *see* **Assem, Ibrahim**, **2005b:16029**

16G99 None of the above, but in this section

Kaufmann, Ralph M. Second quantized Frobenius algebras. (English summary) **2005g:16031**

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Pospíchal, Tomáš *see* **Dlab, Vlastimil**, **2005f:20104**

16H05 Orders and arithmetic, separable algebras, Azumaya algebras [see also 11R52, 11R54, 11S45]

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Brzezinski, Juliusz *see* **Browkin, Jerzy**, **2005h:16024**
Goodearl, K. R. (*with* Stafford, J. T.) Simplicity of noncommutative Dedekind domains. (English summary) **2005j:16016**
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16Kxx Division rings and semisimple Artin rings [see also 12E15, 15A30]

16K20 Finite-dimensional {For crossed products, see 16S35.}

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16K40 Infinite-dimensional and general

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16K50 Brauer groups [see also 12G05, 14F22]

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16Lxx Local rings and generalizations

16L30 Noncommutative local and semilocal rings, perfect rings

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— *see also* **Chen, Jianlong et al., 2005m:16028**
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16L60 Quasi-Frobenius rings [see also 16D50]

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— *see also* **Chen, Jianlong et al., 2005m:16028**
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16L99 None of the above, but in this section

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16Nxx Radicals and radical properties of rings

16N20 Jacobson radical, quasimultiplication

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16N40 Nil and nilpotent radicals, sets, ideals, rings

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16N60 Prime and semiprime rings [see also 16D60, 16U10]

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16Pxx Chain conditions, growth conditions, and other forms of finiteness

16P10 Finite rings and finite-dimensional algebras {For semisimple, see 16K20; for commutative, see 11Txx, 13Mxx.}

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16P40 Noetherian rings and modules

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16P50 Localization and Noetherian rings [see also 16U20]

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16P60 Chain conditions on annihilators and summands: Goldie-type conditions [see also 16U20], Krull dimension

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16P70 Chain conditions on other classes of submodules, ideals, subrings, etc.; coherence

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16P90 Growth rate, Gel′fand-Kirillov dimension

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16P99 None of the above, but in this section

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16Rxx Rings with polynomial identity

16R10 T-ideals, identities, varieties of rings and algebras

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16R20 Semiprime p.i. rings, rings embeddable in matrices over commutative rings

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16S34 Group rings [see also 20C05, 20C07], Laurent polynomial rings

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16S35 Twisted and skew group rings, crossed products

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16S36 Ordinary and skew polynomial rings and semigroup rings [see also 20M25]

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16S38 Rings arising from non-commutative algebraic geometry

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16S40 Smash products of general Hopf actions [see also 16W30]

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16S50 Endomorphism rings; matrix rings [see also 15–XX]

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16S70 Extensions of rings by ideals

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16S80 Deformations of rings [see also 13D10, 14D15]

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16S99 None of the above, but in this section

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16Uxx Conditions on elements

16U10 Integral domains

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16U20 Ore rings, multiplicative sets, Ore localization

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16U30 Divisibility, noncommutative UFDs

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16U60 Units, groups of units

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16U70 Center, normalizer (invariant elements)

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16U80 Generalizations of commutativity

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16Wxx Rings and algebras with additional structure

16W10 Rings with involution; Lie, Jordan and other nonassociative structures [see also 17B60, 17C50, 46Kxx]

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16W20 Automorphisms and endomorphisms

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16W22 Actions of groups and semigroups; invariant theory

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16W25 Derivations, actions of Lie algebras

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— *see also* **Argaç, Nurcan et al., 2005a:16051**
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— *see also* **Chen, Yan**
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Vukman, Joso (*with* Kosi-Ulbl, Irena) On derivations in rings with involution. (English summary)
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16W60 Valuations, completions, formal power series and related constructions [see also 13Jxx]

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16W80 Topological and ordered rings and modules [see also 06F25, 13Jxx]

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16Yxx Generalizations {For nonassociative rings, see 17–XX.}

16Y30 Near-rings [see also 12K05]

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16Y60 Semirings [see also 12K10]

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16Z05 Computational aspects of associative rings [see also 68W30]

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17–XX Nonassociative rings and algebras

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17–03 Historical (must also be assigned at least one classification number from Section 01)

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17–04 Explicit machine computation and programs (not the theory of computation or programming)

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17–06 Proceedings, conferences, collections, etc.

(Vinberg, Ernest) *see* **Lie groups and invariant theory, 2005m:17001**

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17–08 Computational methods

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17Axx General nonassociative rings

17A01 General theory

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17A05 Power-associative rings

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17A15 Noncommutative Jordan algebras

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17A30 Algebras satisfying other identities

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17A32 Leibniz algebras

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17A35 Division algebras

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Scherer, Matthias *see* **Petersson, Holger P., 2005d:17001**
Zhao, Kai Ming *see* **Đoković, Dragomir Ž., 2005e:17003**

17A36 Automorphisms, derivations, other operators

Baranovskiĭ, S. P. (*with* Shirokov, Igor V.; Shmakov, S. V.) Computation of the automorphism group of a finite-dimensional algebra in the Maple system. (Russian. English summary) (*see* **2005c:00008**)
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Gordeev, Nikolai L. (*with* Popov, Vladimir L.) Automorphism groups of finite dimensional simple algebras. (English summary) **2005b:20086**
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17A40 Ternary compositions

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Saraiva, Pedro On some generalizations of Malcev algebras. **2005b:17005**

17A45 Quadratic algebras (but not quadratic Jordan algebras)

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17A50 Free algebras

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17A60 Structure theory

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17A65 Radical theory

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17A75 Composition algebras

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Flaut, Cristina Some equations in algebras obtained by the Cayley-Dickson process. (English summary) **2005c:17005**
— Some properties of the composition algebras. (English summary)
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17A80 Valued algebras

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Luxemburg, W. A. J. *see* **Goldberg, Moshe, 2005e:17001**
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Suzuki, Osamu *see* **Ławrynowicz, Julian et al., 2005h:11077**

17A99 None of the above, but in this section

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17Bxx Lie algebras and Lie superalgebras {For Lie groups, see 22Exx.}

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17B01 Identities, free Lie (super)algebras

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Reutenauer, Christophe Free Lie algebras. **2005e:17005**
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Kwon, Jae-Hoon Free Lie superalgebras and the representations of $\mathfrak{gl}(m, n)$ and $\mathfrak{q}(n)$. (English summary) **2005k:17005**
Mashevitzky, G. (*with* Plotkin, B.; Plotkin, E. B.) Automorphisms of the category of free Lie algebras. (English summary) **2005h:17026**
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Patras, Frédéric (*with* Reutenauer, Christophe) On descent algebras and twisted bialgebras. (English and Russian summaries) **2005e:16067**
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Schocker, Manfred Embeddings of higher Lie modules. (English summary) **2005c:20075**
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— The peak algebra of the symmetric group revisited. (English summary) **2005k:20021**
Shevelin, M. A. *see* **Roman'kov, V. A. et al., 2005g:16046** *and* **Chirkov, I. V., 2005k:17017**

17B05 Structure theory

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— Corrigendum: "The structure of the invariants of perfect Lie algebras" [J. Phys. A **36** (2003), no. 24, 6709–6723; MR2004306 (2004i:17005)]. **2005e:17006**
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Usefi, Hamid *see* **Riley, David Michael, 2005i:17008**
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Chirkov, I. V. (*with* Shevelin, M. A.) Zero divisors in amalgamated free products of Lie algebras. (Russian. Russian summary) **2005c:17006**
Chuah, Meng-Kiat (*with* Hu, Chu-Chin) Equivalence classes of Vogan diagrams. (English summary) **2005g:17021**
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17B10 Representations, algebraic theory (weights)

(Benson, David John) *see* **University of Georgia VIGRE Algebra Group, 2005h:17016**
(Bergonio, Phil) *see* **University of Georgia VIGRE Algebra Group, 2005h:17016**
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17B15 Representations, analytic theory

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17C27 Idempotents, Peirce decompositions

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17C37 Associated geometries

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Zhelyabin, V. N. (*with* Shestakov, I. P.) Simple special Jordan superalgebras with an associative even part. (Russian. Russian summary) **2005i:17041**

17C60 Division algebras

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Zhao, Kai Ming *see* Đoković, Dragomir Ž., **2005g:17008**

17C65 Jordan structures on Banach spaces and algebras [see also 46H70, 46L70]

Boudi, Nadia (*with* Marhnine, Hassan; Zarhouti, Chafika) Additive derivations on Jordan Banach pairs. (English summary) **2005i:17040**

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17C70 Super structures

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Racine, Michel (*with* Zel′manov, E. I.) Simple Jordan superalgebras with semisimple even part. (English summary) **2005b:17063**

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Desrosiers, Patrick (*with* Lapointe, Luc; Mathieu, Pierre[1]) Explicit formulae for the generalized Hermite polynomials in superspace. (English summary) **2005b:33010**

Lapointe, Luc *see* Desrosiers, Patrick et al., **2005b:33010**

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17C90 Applications to physics

Items with secondary classifications in 17C90

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17C99 None of the above, but in this section

Asadurian, Eduard A pair of Jordan triple systems of Jordan pair type. (English summary)

Beidar, Konstantin I. (*with* Brešar, Matej; Chebotar′, M. A.; Martindale, W. S., III) Polynomial preserving maps on certain Jordan algebras. (English summary) **2005c:17049**

Brešar, Matej *see* Beidar, Konstantin I. et al., **2005c:17049**

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Faybusovich, Leonid (*with* Arana, R.) A long-step primal-dual algorithm for the symmetric programming problem. (English summary) **2005d:90139**

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Wang, Xing Tao (*with* You, Hong) Decomposition of Jordan automorphisms of strictly triangular matrix algebra over local rings. (English summary) **2005g:16065**
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17Dxx Other nonassociative rings and algebras

17D05 Alternative rings

Flaut, Cristina *see* **Ştefănescu, Mirela**, **2005i:17042**
Pchelintsev, S. V. Prime alternative algebras that are close to commutative. (Russian. Russian summary) **2005j:17030**
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Polcino Milies, César *see* **Goodaire, Edgar G.**, **2005k:20175**
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17D10 Mal′cev (Mal′tsev) rings and algebras

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Feng, Jian-qiang *see* **Zhang, Zhi Xue**, **2005k:17047**
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Paal, Eugen Note on analytic Moufang loops. (English summary)
Sabinina, L. L. *see* **Carrillo-Catalán, Ramiro**, **2005m:53021**
Saraiva, Pedro On some generalizations of Malcev algebras. **2005b:17005**

17D15 Right alternative rings

Pchelintsev, S. V. Nilpotency of the alternator ideal of a finitely generated binary $(-1, 1)$-algebra. (Russian. Russian summary) **2005b:17064**

17D20 (γ, δ)-rings, including $(1, -1)$-rings

Platonova, S. V. Varieties of solvable index-two algebras of type (1, 1). (Russian. Russian summary) **2005i:17043**
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17D25 Lie-admissible algebras

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Kim, Yangkon *see* **Nam, Ki-Bong et al.**, **2005m:17046**
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Nam, Ki-Bong On some non-associative algebras using additive groups. (English summary) **2005e:17052**
— (*with* Kim, Yangkon; Wang, Moon-Ok) Weyl-type non-associative algebras. I. (English summary) **2005m:17046**
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Benavides, Raúl (*with* Mallol, Cristián; Suazo, Avelino) A class of right symmetric Vinberg algebras. (English summary) **2005a:17001**
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17D92 Genetic algebras

Ferreira, J. C. M. (*with* Guzzo, H., Jr.) The bar-radical of Jordan baric algebras. (English summary) **2005i:17044**
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Mallol, Cristián (*with* Nourigat, Michèle; Varro, Richard) Sur les algèbres monomiales constantes. (English summary) [On constant monomial algebras] **2005k:17048**
Micali, Artibano (*with* Ouattara, Moussa; Zitan, Fouad) Sur les algèbres de Bernstein. VI. Cas non commutatif. (French summary) [On Bernstein algebras. VI. Noncommutative case] **2005e:17053**
Nourigat, Michèle *see* **Mallol, Cristián et al.**, **2005k:17048**
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Tian, Jianjun (*with* Li, Bai-Lian) Coalgebraic structure of genetic inheritance. (English summary) **2005m:17048**
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Mallol, Cristián (*with* Nourigat, Michèle; Varro, Richard) Algèbres monomiales constantes de degré 4. (French summary) [Constant monomial algebras of degree 4] **2005e:17002**
Nourigat, Michèle *see* **Mallol, Cristián et al.**, **2005e:17002**
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17D99 None of the above, but in this section

Boujemaa, H. (*with* Rachidi, Mustapha; Micali, Artibano) Dérivations dans les algèbres de Lotka-Volterra. (English and French summaries) [Derivations in Lotka-Volterra algebras] **2005k:17049**
Micali, Artibano *see* **Boujemaa, H. et al.**, **2005k:17049**
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Items with secondary classifications in 17D99

Im, Bokhee (*with* Smith, Jonathan D. H.) Orthogonal ternary algebras and Thomas sums. (English summary) **2005b:17004**
Smith, Jonathan D. H. *see* **Im, Bokhee**, **2005b:17004**

18–XX Category theory; homological algebra {For commutative rings see 13Dxx, for associative rings 16Exx, for groups 20Jxx, for topological groups and related structures 57Txx; see also 55Nxx and 55Uxx for algebraic topology.}

18–01 Instructional exposition (textbooks, tutorial papers, etc.)

Items with secondary classifications in 18–01

Higgins, Philip J. Categories and groupoids. **2005k:20137**

18–02 Research exposition (monographs, survey articles)

Borceux, Francis (*with* Bourn, Dominique) ★ Mal'cev, protomodular, homological and semi-abelian categories. **2005e:18001**
Bourn, Dominique *see* **Borceux, Francis**, **2005e:18001**
Castellini, Gabriele ★ Categorical closure operators. **2005h:18001**
(Pedicchio, Maria Cristina) *see* **Categorical foundations**, **2005k:18001**
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Items with secondary classifications in 18–02

Corfield, David Categorification as a heuristic device.
Johnstone, Peter T. ★ Sketches of an elephant: a topos theory compendium. Vol. 2. **2005g:18007**
Koenig, Steffen Filtrations, stratifications and applications. **2005f:16001**
Mourão, José M. Aspects of the connections between path integrals, quantum field theory, topology and geometry. (English summary) **2005j:58013**

18–03 Historical (must also be assigned at least one classification number from Section 01)

Brown, Ronald Crossed complexes and homotopy groupoids as non commutative tools for higher dimensional local-to-global problems. (English summary) **2005f:18001**

Items with secondary classifications in 18–03

Barr, Michael Algebraic cohomology: the early days. (English summary) **2005c:01020**
Illusie, Luc What is ... a topos?

18–06 Proceedings, conferences, collections, etc.

Items with secondary classifications in 18–06

(Béziau, Jean-Yves) *see* **Logica universalis**, **2005j:03004**
(Denecke, Klaus) *see* **Galois connections and applications**, **2005a:00013**
(Erné, Marcel) *see* **Galois connections and applications**, **2005a:00013**
(Gähler, Werner) *see* **Categorical structures and their applications**, **2005j:54001**
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(Janelidze, George) *see* **Galois theory, Hopf algebras, and semiabelian categories**, **2005a:00017**
(Pareigis, Bodo) *see* **Galois theory, Hopf algebras, and semiabelian categories**, **2005a:00017**
(Pedicchio, Maria Cristina) *see* **Categorical foundations**, **2005k:18001**
(Preuss, Gerhard) *see* **Categorical structures and their applications**, **2005j:54001**
(Tholen, Walter) *see* **Galois theory, Hopf algebras, and semiabelian categories**, **2005a:00017** *and* **Categorical foundations**, **2005k:18001**
(Wismath, S. L.) *see* **Galois connections and applications**, **2005a:00013**

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Berlin ★ Categorical structures and their applications. **2005j:54001**
Categorical foundations ★ Categorical foundations. **2005k:18001**
Categorical structures and their applications ★ Categorical structures and their applications. **2005j:54001**
Galois connections and applications ★ Galois connections and applications. **2005a:00013**
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Logica universalis ★ Logica universalis. **2005j:03004**
Toronto, ON ★ Galois theory, Hopf algebras, and semiabelian categories. **2005a:00017**

18Axx General theory of categories and functors

18A05 Definitions, generalizations

Martins-Ferreira, N. Weak categories in additive 2-categories with kernels. (English summary) **2005d:18001**
Šostak, Alexander P. L-valued categories: generalities and examples related to algebra and topology. (English summary) **2005k:18002**

Items with secondary classifications in 18A05

Crans, Sjoerd E. The shuffle pasting. (English summary) **2005d:52014**
Kubiak, Tomasz (*with* Šostak, Alexander P.) A fuzzification of the category of M-valued L-topological spaces. (English summary) **2005i:54005**
Šostak, Alexander P. *see* **Kubiak, Tomasz**, **2005i:54005**

18A10 Graphs, diagram schemes, precategories [See especially 20L05]

Items with secondary classifications in 18A10

Crans, Sjoerd E. The shuffle pasting. (English summary) **2005d:52014**
Lair, C. Éléments de théorie des esquisses. I. Graphes à composition. [Elements of the theory of sketches. I. Composition graphs] **2005k:18011a**
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— Éléments de théorie des esquisses. III. Esquisses. [Elements of the theory of sketches. III. Sketches] **2005k:18011c**
Vallette, Bruno ★ Dualité de Koszul des PROPs. (French. French summary) [Koszul duality of PROPs] **2005g:18016**

18A15 Foundations, relations to logic and deductive systems [see also 03–XX]

Adámek, Jiří (*with* Milius, Stefan; Velebil, Jiří) On coalgebra based on classes. (English summary) **2005h:18002**
McLarty, Colin Learning from questions on categorical foundations. (English summary) **2005k:18003**
Milius, Stefan *see* **Adámek, Jiřiet al.**, **2005h:18002**
Velebil, Jiří *see* **Adámek, Jiřiet al.**, **2005h:18002**

Items with secondary classifications in 18A15

Ageron, Pierre Logic without self-deductibility. (English summary) **2005k:03021**
Caleiro, Carlos (*with* Gonçalves, Ricardo) Equipollent logical systems. (English summary) **2005k:03025**
Diaconescu, Răzvan *see* **Mossakowski, Till et al.**, **2005k:03092**
Goguen, Joseph *see* **Mossakowski, Till et al.**, **2005k:03092**
Gonçalves, Ricardo *see* **Caleiro, Carlos**, **2005k:03025**
Lengyel, Florian More existence theorems for recursion categories. (English summary) **2005h:03082**
Mossakowski, Till (*with* Goguen, Joseph; Diaconescu, Răzvan; Tarlecki, Andrzej) What is a logic? (English summary) **2005k:03092**
Tarlecki, Andrzej *see* **Mossakowski, Till et al.**, **2005k:03092**

18A20 Epimorphisms, monomorphisms, special classes of morphisms, null morphisms

Dikranjan, Dikran (*with* Tholen, Walter; Watson, W. Stephen) Classification of closure operators for categories of topological spaces. (English summary) **2005k:18004**
Dydak, Jerzy (*with* Ruiz del Portal, Francisco R.) Isomorphisms in pro-categories. (English summary) **2005c:18001**
García-Rodeja Fernández, Eduardo *see* **Ladra González, Manuel et al.**, **2005e:18002**
Hébert, Michel $\mathscr{X}$-purity and orthogonality. (English summary) **2005h:18003**
Hofmann, Dirk An algebraic description of regular epimorphisms in topology. (English summary) **2005m:18001**
Janelidze, Z. Varieties of universal algebras with normal local projections. (English summary) **2005a:18001**
Ladra González, Manuel (*with* López López, M. P.; García-Rodeja Fernández, Eduardo) Epimorphisms of crossed modules. (English summary) **2005e:18002**
López López, M. P. *see* **Ladra González, Manuel et al.**, **2005e:18002**
Richter, Günther[1] (*with* Vauth, Alexander) Fibrewise sobriety. (English summary) **2005k:18005**
Ruiz del Portal, Francisco R. *see* **Dydak, Jerzy**, **2005c:18001**
Sousa, Lurdes On projective generators relative to coreflective classes. (English summary) **2005d:18002**
Tholen, Walter *see* **Dikranjan, Dikran et al.**, **2005k:18004**
Vauth, Alexander *see* **Richter, Günther[1]**, **2005k:18005**
Watson, W. Stephen *see* **Dikranjan, Dikran et al.**, **2005k:18004**
Zangurashvili, Dali Several constructions for factorization systems. (English summary) **2005h:18004**

Items with secondary classifications in 18A20

Banaschewski, Bernhard (*with* Pultr, Aleš) On weak lattice and frame homomorphisms. (English summary) **2005g:06013**
Bourn, Dominique (*with* Gran, Marino) Normal sections and direct product decompositions. (English summary) **2005m:18011**
Chikhladze, Dimitri Monotone-light factorization for Kan fibrations of simplicial sets with respect to groupoids. (English summary) **2005k:55027**
Clementino, Maria Manuel (*with* Hofmann, Dirk; Janelidze, George) Local homeomorphisms via ultrafilter convergence. (English summary) **2005i:54014**
Elkin, V. I. On the categories and foundations of the theory of nonlinear controlled dynamical systems. I. (Russian. Russian summary) **2005a:93077**
Gran, Marino *see* **Bourn, Dominique**, **2005m:18011**
Hébert, Michel Algebraically closed and existentially closed substructures in categorical context. (English summary) **2005c:18005**
Hofmann, Dirk *see* **Clementino, Maria Manuel et al.**, **2005i:54014**
Janelidze, George *see* **Clementino, Maria Manuel et al.**, **2005i:54014**
Kopperman, Ralph (*with* Matthews, S. G.; Pajoohesh, H.) Partial metrizability in value quantales. (English summary) **2005e:06032**
Matthews, S. G. *see* **Kopperman, Ralph et al.**, **2005e:06032**
Pajoohesh, H. *see* **Kopperman, Ralph et al.**, **2005e:06032**
Pultr, Aleš *see* **Banaschewski, Bernhard**, **2005g:06013**
Richter, Günther[1] An elementary approach to exponentiable maps. (English summary) **2005g:54022**

Rodríguez, José Luis (*with* Scevenels, Dirk) Homology equivalences inducing an epimorphism on the fundamental group and Quillen's plus construction. (English summary) **2005a:55006**
Roque, Ana Helena Effective descent morphisms in some quasivarieties of algebraic, relational, and more general structures. (English summary) **2005g:18010**
Scevenels, Dirk *see* **Rodríguez, José Luis, 2005a:55006**
Sobral, Manuela Descent for discrete (co)fibrations. (English summary) **2005g:18001**

18A22 Special properties of functors (faithful, full, etc.)

Chiţescu, Ion Yoneda's lemma and abstract representations in functional analysis. (English summary) **2005f:18002**

Items with secondary classifications in 18A22

Bourizk, Ismaïl Sur des foncteurs simples. (English summary) [Simple functors] **2005d:18012**
Sousa, Lurdes On projective generators relative to coreflective classes. (English summary) **2005d:18002**

18A25 Functor categories, comma categories

Mesablishvili, Bachuki Every small $\mathcal{S}l$-enriched category is Morita equivalent to an $\mathcal{S}l$-monoid. (English summary) **2005h:18005**
Słomińska, Jolanta Dold-Kan type theorems and Morita equivalences of functor categories. (English summary) **2005c:18002**
Sobral, Manuela Descent for discrete (co)fibrations. (English summary) **2005g:18001**

Items with secondary classifications in 18A25

Centazzo, Claudia (*with* Rosický, Jiří; Vitale, Enrico M.) A characterization of locally $\mathbb{D}$-presentable categories. (French summary) **2005b:18008**
Hiptmair, Ralf From E to edge elements. (English summary) **2005a:78001**
Pop, Ioan[1] A categorical notion of movability. (English summary) **2005c:55021**
Rosický, Jiří *see* **Centazzo, Claudia et al., 2005b:18008**
Sten, J. C.-E. Conversion between two bases of rotationally symmetric spheroidal vector wavefunctions. (English summary) **2005h:33046**
Vitale, Enrico M. *see* **Centazzo, Claudia et al., 2005b:18008**
Vogel, Hans-Jürgen Adjointness between theories and strict theories. (English summary) **2005d:18009**
Zangurashvili, Dali Several constructions for factorization systems. (English summary) **2005h:18004**

18A30 Limits and colimits (products, sums, directed limits, pushouts, fiber products, equalizers, kernels, ends and coends, etc.)

Giuli, Eraldo On separated affine sets and epimorphisms. (English summary) **2005g:18002**
Tan, Zhi-song *see* **Zhan, Jian Ming**
Zhan, Jian Ming (*with* Tan, Zhi-song) Left weakly Novikov algebra. (English and Chinese summaries)

Items with secondary classifications in 18A30

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18A35 Categories admitting limits (complete categories), functors preserving limits, completions

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18Bxx Special categories

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18Cxx Categories and theories

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18C15 Triples (= standard construction, monad or triad), algebras for a triple, homology and derived functors for triples [see also 18Gxx]

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18C30 Sketches and generalizations

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18C35 Accessible and locally presentable categories

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18C50 Categorical semantics of formal languages [see also 68Q55, 68Q65]

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18Dxx Categories with structure

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18D10 Monoidal categories (= multiplicative categories), symmetric monoidal categories, braided categories [see also 19D23]

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Müger, Michael Galois extensions of braided tensor categories and braided crossed G-categories. (English summary) **2005b:18011**
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18D15 Closed categories (closed monoidal and Cartesian closed categories, etc.)

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18G60 Other (co)homology theories [see also 19D55, 46L80, 58J20, 58J22]

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19–XX K-theory [see also 16E20, 18F25]

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19Axx Grothendieck groups and K_0 [see also 13D15, 18F30]

19A15 Efficient generation

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19A31 K_0 of group rings and orders

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19Bxx Whitehead groups and K_1

19B10 Stable range conditions

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19B28 K_1 of group rings and orders [see also 57Q10]

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19Cxx Steinberg groups and K_2

19C09 Central extensions and Schur multipliers

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19C20 Symbols, presentations and stability of K_2

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19Dxx Higher algebraic K-theory

19D06 Q- and plus-constructions

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19D10 Algebraic K-theory of spaces

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19D23 Symmetric monoidal categories [see also 18D10]

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19D25 Karoubi-Villamayor-Gersten K-theory

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19D35 Negative K-theory, NK and Nil

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19D45 Higher symbols, Milnor K-theory

Akhtar, Reza Milnor K-theory of smooth varieties. (English summary) **2005k:19007**
— Torsion in mixed K-groups. (English summary) **2005c:19003**
Becher, Karim Johannes (*with* Hoffmann, Detlev W.) Symbol lengths in Milnor K-theory. (English summary) **2005b:19001**
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Ching, Avery On the tangent spaces of Chow groups of certain projective hypersurfaces. (English summary) **2005g:14011**
Esnault, Hélène *see* **Bloch, Spencer**, **2005e:19006**
Goncharov, A. B. Euclidean scissor congruence groups and mixed Tate motives over dual numbers. (English summary) **2005m:11124**
Jannsen, Uwe (*with* Saito, Shuji[1]) Kato homology of arithmetic schemes and higher class field theory over local fields. (English summary) **2005c:11087**
Karoubi, Max Periodicity of Hermitian K-theory and Milnor's K-groups. **2005b:19006**
Pablos Romo, Fernando *see* **Anderson, Greg W.**, **2005d:11099**
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— On l-adic iterated integrals. I. Analog of Zagier conjecture. (English summary) **2005m:11125**
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19D50 Computations of higher K-theory of rings [see also 13D15, 16E20]

Guo, Xuejun (*with* Kuku, Aderemi) Higher class groups of generalized Eichler orders. (English summary) **2005m:19002**
Hesselholt, Lars (*with* Madsen, Ib) On the De Rham-Witt complex in mixed characteristic. (English and French summaries) **2005f:19005**
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— (*with* Goldfarb, Boris) On homological coherence of discrete groups. (English summary) **2005a:20078**

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19D55 K-theory and homology; cyclic homology and cohomology [see also 18G60]

Akbarpour, R. (*with* Khalkhali, Masoud) Equivariant cyclic cohomology of $\mathscr{H}$-algebras. (English summary) **2005e:19003**
Cortiñas, Guillermo (*with* Valqui, Christian) Excision in bivariant periodic cyclic cohomology: a categorical approach. (English summary) **2005c:19005**
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Dugger, Daniel (*with* Shipley, Brooke) K-theory and derived equivalences. (English summary) **2005e:19005**
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19Exx K-theory in geometry

19E08 K-theory of schemes [see also 14C35]

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Akhtar, Reza Zero-cycles on varieties over finite fields. (English summary) **2005b:14017**
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19E15 Algebraic cycles and motivic cohomology [see also 14C25, 14C35]

Kimura, Kenichiro On K_1 of a self-product of a curve. (English summary) **2005b:19004**
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Hanamura, Masaki Mixed motives and algebraic cycles. II. **2005g:14021**
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— Holes in I^n. (English and French summaries) **2005k:11082**
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19E20 Relations with cohomology theories [see also 14Fxx]

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Goncharov, A. B. Euclidean scissor congruence groups and mixed Tate motives over dual numbers. (English summary) **2005m:11124**
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— On l-adic iterated integrals. I. Analog of Zagier conjecture. (English summary) **2005m:11125**
— On l-adic iterated integrals. II. Functional equations and l-adic polylogarithms. (English summary) **2005m:11126**

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19Fxx K-theory in number theory [see also 11R70, 11S70]

19F05 Generalized class field theory [see also 11G45]

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19F15 Symbols and arithmetic [see also 11R37]

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Browkin, Jerzy Tame kernels of cubic cyclic fields. (English summary) **2005j:11079**
Hutchinson, Kevin On tame and wild kernels of special number fields. (English summary) **2005f:11265**
Kahn, Bruno Algebraic K-theory and twisted reciprocity laws. (English summary) **2005e:11155**
Lescop, Mikaël 2-extensions of $\mathbb{Q}$ with trivial 2-primary Hilbert kernel. **2005b:11188**
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Qin, Hou Rong The structure of the tame kernels of quadratic number fields. I. **2005d:11161**
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— *see also* **Yin, Xiaobin et al.**, **2005j:11081**
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19F27 Étale cohomology, higher regulators, zeta and L-functions [see also 11G40, 11R42, 11S40, 14F20, 14G10]

Bloch, Spencer (*with* Esnault, Hélène) The additive dilogarithm. (English summary) **2005e:19006**
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Bars, Francesc A relation between p-adic L-functions and the Tamagawa number conjecture for Hecke characters. (English summary) **2005h:11135**
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Besser, Amnon (*with* de Jeu, Rob) The syntomic regulator for the K-theory of fields. (English and French summaries) **2005f:11133**
Bismut, Jean-Michel (*with* Goette, Sebastian) Equivariant de Rham torsions. (English summary) **2005f:58059**
Fukaya, Takako Coleman power series for K_2 and p-adic zeta functions of modular forms. (English summary) **2005c:11084**
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Goncharov, A. B. Euclidean scissor congruence groups and mixed Tate motives over dual numbers. (English summary) **2005m:11124**
Guo, Xuejun (*with* Kuku, Aderemi) Higher class groups of generalized Eichler orders. (English summary) **2005m:19002**
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Levin, Andreĭ Mikhailovich An explicit formula for the motivic elliptic polylogarithm. (English summary) **2005f:11134**
— Kronecker double series and the dilogarithm. (English summary) **2005b:11096**
Østvær, Paul Arne On $A(X) \to \mathrm{TC}(X)$ for some X. (English summary) **2005g:19006**
— Wild kernels at the prime 2. **2005e:11156**
Solomon, David Robert Abelian conjectures of Stark type in $\mathbb{Z}_p$-extensions of totally real fields. (English summary) **2005h:11253**
Soulé, Christophe A bound for the torsion in the K-theory of algebraic integers. (English summary) **2005c:11144**
Weston, Thomas Alexander Geometric Euler systems for locally isotropic motives. (English summary) **2005g:11091**
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19Gxx K-theory of forms [see also 11Exx]

19G12 Witt groups of rings [see also 11E81]

Balmer, Paul An introduction to triangular Witt groups and a survey of applications. (English summary) **2005b:19005**
Friedl, Stefan Full signature invariants for $L_0(F(t))$. (English summary) **2005j:19003**
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Bak, Anthony (*with* Morimoto, Masaharu) The dimension of spheres with smooth one fixed point actions. (English summary) **2005m:57048**
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Sheiham, Desmond Invariants of boundary link cobordism. (English summary) **2005f:57038**

19G24 L-theory of group rings [see also 11E81]

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Balmer, Paul (*with* Matthey, Michel) Model theoretic reformulation of the Baum-Connes and Farrell-Jones conjectures. (English summary) **2005k:19002**
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19G38 Hermitian K-theory, relations with K-theory of rings

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19Jxx Obstructions from topology

19J10 Whitehead (and related) torsion

Items with secondary classifications in 19J10

Berkove, Ethan J. (*with* Juan-Pineda, Daniel; Lu, Qin[1]) Algebraic K-theory of mapping class groups. (English summary) **2005g:19002**
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19J25 Surgery obstructions [see also 57R67]

Kreck, Matthias (*with* Lück, Wolfgang) ★ The Novikov conjecture. **2005i:19003**
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19J35 Obstructions to group actions

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19J99 None of the above, but in this section

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19Kxx K-theory and operator algebras [See mainly 46L80, and also 46M20]

19K14 K_0 as an ordered group, traces

Fan, Qing Zhai (*with* Hu, Shan Wen; Fang, Xiao Chun) K-groups of tracial limits of C^*-algebras in $I^{(k)}$. (Chinese. English and Chinese summaries)
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19K33 EXT and K-homology [see also 55N22]

Matthey, Michel The Baum-Connes assembly map, delocalization and the Chern character. (English summary) **2005a:19002**

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Connes, Alain Cyclic cohomology, quantum group symmetries and the local index formula for $SU_q(2)$. (English summary) **2005f:58044**
Hadfield, Tom K-homology of the rotation algebras A_θ. (English summary) **2005f:46130**
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— *see also* **Krieger, Wolfgang, 2005c:37015**
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19K56 Index theory [see also 58J20, 58J22]

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19K99 None of the above, but in this section

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19Lxx Topological K-theory [see also 55N15, 55R50, 55S25]

19L10 Riemann-Roch theorems, Chern characters

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19L20 J-homomorphism, Adams operations [see also 55Q50]

Patras, Frédéric Lambda-rings. **2005a:19003**

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19L41 Connective K-theory, cobordism [see also 55N22]

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19L47 Equivariant K-theory [see also 55N91, 55P91, 55Q91, 55R91, 55S91]

An, Feng Wen The concrete G-equivariant K-groups of rings. I. (Chinese. English and Chinese summaries) **2005a:19004**
Atiyah, Michael (*with* Hopkins, Michael J.) A variant of K-theory: $K_{\pm}$. **2005f:19008**
Hopkins, Michael J. *see* **Atiyah, Michael, 2005f:19008**
Matthey, Michel (*with* Mislin, Guido) Equivariant K-homology and restriction to finite cyclic subgroups. (English summary) **2005k:19012**
Mislin, Guido *see* **Matthey, Michel, 2005k:19012**

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Balmer, Paul (*with* Matthey, Michel) Codescent theory. I. Foundations. (English summary) **2005k:18018**
Carlsson, Gunnar (*with* Goldfarb, Boris) The integral K-theoretic Novikov conjecture for groups with finite asymptotic dimension. (English summary) **2005g:19007**
— (*with* Goldfarb, Boris) Addendum: "The integral K-theoretic Novikov conjecture for groups with finite asymptotic dimension" [Invent. Math. **157** (2004), no. 2, 405–418; MR2076928 (2005g:19007)].
Costinescu, Cristian-N. About the holomorphic K-theory spectrum. (English summary) **2005h:14052**
Goldfarb, Boris *see* **Carlsson, Gunnar, 2005g:19007**
Griffeth, Stephen (*with* Ram, Arun) Affine Hecke algebras and the Schubert calculus. (English summary) **2005h:14118**
Guillemin, Victor W. (*with* Kogan, Mikhail) Morse theory on Hamiltonian G-spaces and equivariant K-theory. (English summary) **2005g:53159**
Kogan, Mikhail *see* **Guillemin, Victor W., 2005g:53159**
Lima-Filho, Paulo *see* **dos Santos, Pedro F., 2005m:55018**
Matthey, Michel *see* **Balmer, Paul, 2005k:18018**
Nistor, Victor (*with* Troitskiĭ, E. V.) An index for gauge-invariant operators and the Dixmier-Douady invariant. (English summary) **2005b:58028**
Park, Dae Heui (*with* Suh, Dong Youp) The equivariant Whitehead groups of semialgebraic G-sets. **2005g:57050**
Ram, Arun *see* **Griffeth, Stephen, 2005h:14118**
dos Santos, Pedro F. (*with* Lima-Filho, Paulo) Quaternionic algebraic cycles and reality. (English summary) **2005m:55018**
Sauer, Juliane K-theory for proper smooth actions of totally disconnected groups. (English summary) **2005b:55006**
Schäfer-Nameki, Sakura K-theoretical boundary rings in $\mathcal{N} = 2$ coset models. (English summary) **2005m:81280**
Suh, Dong Youp *see* **Park, Dae Heui, 2005g:57050**
Troitskiĭ, E. V. *see* **Nistor, Victor, 2005b:58028**
Tu, Jean-Louis The gamma element for groups which admit a uniform embedding into Hilbert space. (English summary) **2005k:19011**

19L64 Computations, geometric applications

Mickelsson, Jouko Twisted K theory invariants. (English summary) **2005m:19005**

Items with secondary classifications in 19L64

Carey, Alan L. (*with* Johnson, Stuart; Murray, Michael K.) Holonomy on D-branes. (English summary) **2005m:53076**
Dong, Chongying (*with* Liu, Kefeng; Ma, Xiaonan; Zhou, Jian) K-theory associated to vertex operator algebras. (English summary) **2005k:19001**
Dwyer, William G. (*with* Schick, Thomas; Stolz, Stephan) Remarks on a conjecture of Gromov and Lawson. (English summary) **2005f:53043**
Gaberdiel, Matthias R. (*with* Gannon, Terry; Roggenkamp, Daniel) The coset of D-branes of SU(n). (English summary) **2005m:81250**
Gannon, Terry *see* **Gaberdiel, Matthias R. et al., 2005m:81250**
García-Compeán, Hugo (*with* Loaiza-Brito, Oscar) Branes and fluxes in orientifolds and K-theory. (English summary) **2005h:81281**
Johnson, Stuart *see* **Carey, Alan L. et al., 2005m:53076**
Kishimoto, Daisuke (*with* Kono, Akira[1]; Ohsita, Akihiro) KO-theory of flag manifolds. **2005c:55010**
— KO-theory of complex Stiefel manifolds. **2005h:55014**
Kono, Akira[1] *see* **Kishimoto, Daisuke et al., 2005c:55010**
Liu, Kefeng *see* **Dong, Chongying et al., 2005k:19001**
Loaiza-Brito, Oscar *see* **García-Compeán, Hugo, 2005h:81281**
Ma, Xiaonan *see* **Dong, Chongying et al., 2005k:19001**
Mathai, Varghese (*with* Murray, Michael K.; Stevenson, Daniel) Type-I D-branes in an H-flux and twisted KO-theory. (English summary) **2005d:81296**
— (*with* Sati, Hisham) Some relations between twisted K-theory and E_8 gauge theory. (English summary) **2005h:58069**
Moore, Gregory W. K-theory from a physical perspective. (English summary) **2005m:81289**
Murray, Michael K. *see* **Mathai, Varghese et al., 2005d:81296** *and* **Carey, Alan L. et al., 2005m:53076**
Ohsita, Akihiro *see* **Kishimoto, Daisuke et al., 2005c:55010**
Roggenkamp, Daniel *see* **Gaberdiel, Matthias R. et al., 2005m:81250**
Sati, Hisham *see* **Mathai, Varghese, 2005h:58069**
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Stefański, Bogdan, Jr. Orientifolds, discrete torsion and twisted equivariant K-theory. (English summary) **2005c:81181**
Stevenson, Daniel *see* **Mathai, Varghese et al., 2005d:81296**
Stolz, Stephan *see* **Dwyer, William G. et al., 2005f:53043**
Zhou, Jian *see* **Dong, Chongying et al., 2005k:19001**

19L99 None of the above, but in this section

Items with secondary classifications in 19L99

Baues, Hans-Joachim (*with* Ferrario, Davide L.) K-theory of stratified vector bundles. (English summary) **2005d:55005**
Ferrario, Davide L. *see* **Baues, Hans-Joachim, 2005d:55005**

19M05 Miscellaneous applications of K-theory

Guillot, Pierre Chow rings and cobordism of some Chevalley groups. (English summary) **2005b:19010**

Items with secondary classifications in 19M05

Boyle, Mike (*with* Wagoner, J. B.) Positive algebraic K-theory and shifts of finite type. **2005j:37016**

Bruns, Winfried (*with* Gubeladze, Joseph) Polytopes and K-theory. (English summary) **2005h:19002**

Bursztyn, Henrique (*with* Waldmann, Stefan) Bimodule deformations, Picard groups and contravariant connections. (English summary) **2005f:53164**

Gubeladze, Joseph *see* **Bruns, Winfried**, **2005h:19002**

Lenart, Cristian The K-theory of the flag variety and the Fomin-Kirillov quadratic algebra. (English summary) **2005j:14072**

Teleman, Constantin K-theory and the moduli space of bundles on a surface and deformations of the Verlinde algebra. (English summary) **2005g:53183**

Wagoner, J. B. *see* **Boyle, Mike**, **2005j:37016**

Waldmann, Stefan *see* **Bursztyn, Henrique**, **2005f:53164**

20–XX Group theory and generalizations

20–01 Instructional exposition (textbooks, tutorial papers, etc.)

Badawi, Ayman ★ Abstract algebra manual: problems and solutions. **2005e:20001**

Items with secondary classifications in 20–01

Anderson, Marlow (*with* Feil, Todd) ★ A first course in abstract algebra.
Feil, Todd *see* **Anderson, Marlow**
Grove, Larry C. ★ Algebra. **2005g:00002**
Jain, Surender Kumar *see* **Nagpaul, S. R., 2005m:94002**
Lanski, Charles ★ Concepts in abstract algebra. **2005g:00004**
Lauritzen, Niels ★ Concrete abstract algebra. **2005d:00001**
Menini, Claudia (*with* Van Oystaeyen, Freddy) ★ Abstract algebra. **2005e:00001**
Nagpaul, S. R. (*with* Jain, Surender Kumar) ★ Topics in applied abstract algebra. **2005m:94002**
Rotman, Joseph J. ★ Advanced modern algebra. **2005b:00002**
Van Oystaeyen, Freddy *see* **Menini, Claudia, 2005e:00001**
Wickless, William ★ A first graduate course in abstract algebra. **2005c:00001**

20–02 Research exposition (monographs, survey articles)

Müller, Thomas W. Modular subgroup arithmetic. **2005c:20001**

Items with secondary classifications in 20–02

Koenig, Steffen Filtrations, stratifications and applications. **2005f:16001**
Pálfy, Péter P. Groups and lattices. (English summary) **2005b:20051**
Schocker, Manfred The descent algebra of the symmetric group. **2005c:20023**

20–03 Historical (must also be assigned at least one classification number from Section 01)

(Ledermann, Walter) *see* **Stammbach, Urs, 2005b:20001**
Roth, Richard L. A history of Lagrange's theorem on groups.
(Schur, Issai) *see* **Stammbach, Urs, 2005b:20001**
Shunkov, V. P. Groups with conditions of finiteness. (English summary) **2005m:20001**
Stammbach, Urs ★ Die Zürcher Vorlesung von Issai Schur über Darstellungstheorie. (German) [The Zurich lecture of Issai Schur on representation theory] **2005b:20001**
(Stiefel, E.) *see* **Stammbach, Urs, 2005b:20001**

Items listed otherwise than by author

Biography:
Schur, Issai *see* **Stammbach, Urs, 2005b:20001**

Items with secondary classifications in 20–03

Aubert, Anne-Marie Un peu d'histoire des groupes finis et quelques exemples simples. [A bit of the history of finite groups and some simple examples] **2005h:20026**
Prasad, Gopal On some work of Raghunathan. (English summary) **2005k:22002**

20–04 Explicit machine computation and programs (not the theory of computation or programming)

Michel, Jean[2] Calculs en théorie des groupes et introduction au langage GAP (groups, algorithms and programming). [Group-theoretical computations and introduction to the language GAP (groups, algorithms and programming)] **2005b:20002**

Items with secondary classifications in 20–04

Bray, John N. (*with* Curtis, Robert T.) Double coset enumeration of symmetrically generated groups. (English summary) **2005b:20059**
Cannon, John J. (*with* Holt, Derek F.) Computing maximal subgroups of finite groups. (English summary) **2005i:20047**
Curtis, Robert T. *see* **Bray, John N., 2005b:20059**
Flannery, D. L. Irreducible monomial linear groups of degree four over finite fields. (English summary) **2005d:20094**
Holt, Derek F. *see* **Cannon, John J., 2005i:20047**
Huang, Ben Wen (*with* Liao, Xiang Jun; Lü, Yun Xiang; Wang, Xiu Hua) Subgroups of the symmetric group S_7. (Chinese. English and Chinese summaries)
Kavitha, Telikepalli Efficient algorithms for abelian group isomorphism and related problems. (English summary) **2005f:20092**
Kohl, Stefan Classifying finite simple groups with respect to the number of orbits under the action of the automorphism group. (English summary) **2005k:20074**
Liao, Xiang Jun *see* **Huang, Ben Wen et al.**
Lü, Yun Xiang *see* **Huang, Ben Wen et al.**
Nordh, Gustav The complexity of equivalence and isomorphism of systems of equations over finite groups. (English summary) **2005m:68099**
Shpilka, Amir (*with* Wigderson, Avi) Derandomizing homomorphism testing in general groups. (English summary) **2005j:68062**
Wang, Xiu Hua *see* **Huang, Ben Wen et al.**
Wigderson, Avi *see* **Shpilka, Amir, 2005j:68062**

20–06 Proceedings, conferences, collections, etc.

(Borovik, Alexandre V.) *see* **Computational and experimental group theory, 2005b:20003**
(Burillo, José) *see* **Geometric methods in group theory, 2005m:20002**
(Cleary, Sean) *see* **Geometric methods in group theory, 2005m:20002**
(Corsini, Piergiulio) *see* **Algebraic hyperstructures and applications, 2005a:20001**
(Dass, Bal Kishan) *see* **Algebraic hyperstructures and applications, 2005a:20001**
(Elder, Murray) *see* **Geometric methods in group theory, 2005m:20002**
(Gionfriddo, Mario) *see* **Algebraic hyperstructures and applications, 2005a:20001**
(Ho, Chat Yin) *see* **Finite groups 2003, 2005i:20001**
(Kashiwara, Masaki) *see* **Representation theory of algebraic groups and quantum groups, 2005b:20004**
(Kawanaka, Noriaki) *see* **Representation theory of algebraic groups and quantum groups, 2005b:20004**
(Lusztig, George) *see* **Representation theory of algebraic groups and quantum groups, 2005b:20004**
(Margolis, Stuart W.) *see* **Conference: Semigroups and Groups in honor of the 65th birthday of Prof. John Rhodes, International**
(Migliorato, Renato) *see* **Algebraic hyperstructures and applications, 2005a:20001**
(Müller, Thomas W.) *see* **Groups: topological, combinatorial and arithmetic aspects, 2005a:20002**
(Myasnikov, Aleksei G.) *see* **Computational and experimental group theory, 2005b:20003** *and* **Group theory, statistics, and cryptography, 2005f:20001**
(Rhodes, John L.) *see* **Conference: Semigroups and Groups in honor of the 65th birthday of Prof. John Rhodes, International**
(Shinoda, Ken-ichi) *see* **Representation theory of algebraic groups and quantum groups, 2005b:20004**
(Shoji, Toshiaki) *see* **Representation theory of algebraic groups and quantum groups, 2005b:20004**
(Shpilrain, Vladimir) *see* **Group theory, statistics, and cryptography, 2005f:20001**
(Shum, Kar Ping) *see* **Ordered structures and algebra of computer languages, 2005g:20001**
(Sin, P.) *see* **Finite groups 2003, 2005i:20001**
(Steinberg, Benjamin) *see* **Conference: Semigroups and Groups in honor of the 65th birthday of Prof. John Rhodes, International**
(Taback, Jennifer) *see* **Geometric methods in group theory, 2005m:20002**
(Tiep, Pham Huu) *see* **Finite groups 2003, 2005i:20001**
(Turull, Alexandre) *see* **Finite groups 2003, 2005i:20001**
(Ventura Capell, Enric) *see* **Geometric methods in group theory, 2005m:20002**
(Yuen, Pong C.) *see* **Ordered structures and algebra of computer languages, 2005g:20001**

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Algebraic hyperstructures and applications ★ Algebraic hyperstructures and applications. **2005a:20001**
Baltimore, MD ★ Computational and experimental group theory. **2005b:20003**
Bielefeld ★ Groups: topological, combinatorial and arithmetic aspects. **2005a:20002**
Boston, MA ★ Geometric methods in group theory. **2005m:20002**
Computational and experimental group theory ★ Computational and experimental group theory. **2005b:20003**
Conference:
Semigroups and Groups in honor of the 65th birthday of Prof. John Rhodes, International ★ International Conference on Semigroups and Groups in honor of the 65th birthday of Prof. John Rhodes.
Contemporary Mathematics ★ Computational and experimental group theory. **2005b:20003**
— ★ Group theory, statistics, and cryptography. **2005f:20001**
— ★ Geometric methods in group theory. **2005m:20002**
Finite groups 2003 ★ Finite groups 2003. **2005i:20001**
Gainesville, FL ★ Finite groups 2003. **2005i:20001**
Geometric methods in group theory ★ Geometric methods in group theory. **2005m:20002**
Group theory, statistics, and cryptography ★ Group theory, statistics, and cryptography. **2005f:20001**
Groups: topological, combinatorial and arithmetic aspects ★ Groups: topological, combinatorial and arithmetic aspects. **2005a:20002**
Hong Kong ★ Ordered structures and algebra of computer languages. **2005g:20001**
Introduction [International Conference Loops'03] Introduction [International Conference Loops'03].
New York ★ Group theory, statistics, and cryptography. **2005f:20001**
Ordered structures and algebra of computer languages ★ Ordered structures and algebra of computer languages. **2005g:20001**
Porto ★ International Conference on Semigroups and Groups in honor of the 65th birthday of Prof. John Rhodes.
Representation theory of algebraic groups and quantum groups ★ Representation theory of algebraic groups and quantum groups. **2005b:20004**
Seville ★ Geometric methods in group theory. **2005m:20002**
Taormina ★ Algebraic hyperstructures and applications. **2005a:20001**
Tokyo ★ Representation theory of algebraic groups and quantum groups. **2005b:20004**

Items with secondary classifications in 20–06

(Bakić, Damir) *see* **Functional analysis VIII, 2005j:00016**
(Chapman, Scott T.) *see* **Arithmetical properties of commutative rings and monoids, 2005m:13002**
(Dani, S. G.) *see* **Algebraic groups and arithmetic, 2005d:11002**
(Eigenthaler, Günther) *see* **Contributions to general algebra. 15, 2005b:00023**
(Goldstern, Martin R.) *see* **Contributions to general algebra. 15, 2005b:00023**
(Kaiser, H. K.) *see* **Contributions to general algebra. 15, 2005b:00023**
(Kautschitsch, H.) *see* **Contributions to general algebra. 15, 2005b:00023**
(Martínez, Jorge[2]) *see* **Ordered algebraic structures, 2005b:06001**
(More, W.) *see* **Contributions to general algebra. 15, 2005b:00023**
(Muić, Goran) *see* **Functional analysis VIII, 2005j:00016**
(Müller, W. B.) *see* **Contributions to general algebra. 15, 2005b:00023**
(Pandžić, Pavle) *see* **Functional analysis VIII, 2005j:00016**
(Peskir, Goran) *see* **Functional analysis VIII, 2005j:00016**
(Prasad, Gopal) *see* **Algebraic groups and arithmetic, 2005d:11002**
(Schoissengeier, Johannes) *see* **Contributions to general algebra. 15, 2005b:00023**
(Shum, Kar Ping) *see* **Advances in algebra, 2005c:00013**
(Tan, Eng-Chye) *see* **Representations of real and p-adic groups, 2005e:22001**
(Wan, Zhe-Xian) *see* **Advances in algebra, 2005c:00013**
(Zhang, Ji Ping[1]) *see* **Advances in algebra, 2005c:00013**
(Zhu, Chen-Bo) *see* **Representations of real and p-adic groups, 2005e:22001**

Items listed otherwise than by author

Advances in algebra ★ Advances in algebra. **2005c:00013**
Algebraic groups and arithmetic ★ Algebraic groups and arithmetic. **2005d:11002**
Arithmetical properties of commutative rings and monoids ★ Arithmetical properties of commutative rings and monoids. **2005m:13002**
Chapel Hill, NC ★ Arithmetical properties of commutative rings and monoids. **2005m:13002**
Conference:
Algebra, International ★ Международная Алгебраическая Конференция, посвященная 250-летию Московского Университета и 75-летию Кафедры Высшей Алгебры. (Russian) [International Algebra Conference, dedicated to the 250th anniversary of Moscow State University and the 75th anniversary of the Chair of Higher Algebra]
Contributions to general algebra. 15 ★ Contributions to general algebra. 15. **2005b:00023**
Dubrovnik ★ Functional analysis VIII. **2005j:00016**
Functional analysis VIII ★ Functional analysis VIII. **2005j:00016**
Gainesville, FL ★ Ordered algebraic structures. **2005b:06001**
Hong Kong ★ Advances in algebra. **2005c:00013**
Klagenfurt ★ Contributions to general algebra. 15. **2005b:00023**
Mumbai ★ Algebraic groups and arithmetic. **2005d:11002**
Ordered algebraic structures ★ Ordered algebraic structures. **2005b:06001**
Representations of real and p-adic groups ★ Representations of real and p-adic groups. **2005e:22001**

20Axx Foundations

20A05 Axiomatics and elementary properties

Dikranjan, Dikran (*with* Milan, Chiara; Tonolo, Alberto) A characterization of the maximally almost periodic abelian groups. (English summary) **2005m:20003**
Glavosits, Tamás (*with* Száz, Árpád) On the existence of odd selections. (English summary) **2005a:20003**
Milan, Chiara *see* **Dikranjan, Dikran et al., 2005m:20003**
Száz, Árpád *see* **Glavosits, Tamás, 2005a:20003**
Tonolo, Alberto *see* **Dikranjan, Dikran et al., 2005m:20003**
Vasantha Kandasamy, W. B. Smarandache inverse in group. (English summary)

Items with secondary classifications in 20A05

Fine, Benjamin (*with* Gaglione, Anthony M.; Myasnikov, Aleksei G.; Rosenberger, Gerhard; Spellman, Dennis) Elementary theory of groups. (English summary) **2005i:20002**
Gaglione, Anthony M. *see* **Fine, Benjamin et al., 2005i:20002**
Myasnikov, Aleksei G. *see* **Fine, Benjamin et al., 2005i:20002**
Parihar, C. L. *see* **Purohit, Manju et al., 2005f:26019**
Purohit, Manju (*with* Parihar, C. L.; Tiwari, Madhu) On fractional calculus operator N^{ν_1,ν_2} and P-transformation. (English summary) **2005f:26019**
Rosenberger, Gerhard *see* **Fine, Benjamin et al., 2005i:20002**
Šostak, Alexander P. L-valued categories: generalities and examples related to algebra and topology. (English summary) **2005k:18002**
Spellman, Dennis *see* **Fine, Benjamin et al., 2005i:20002**
Tiwari, Madhu *see* **Purohit, Manju et al., 2005f:26019**
Zelenyuk, E. G. On group operations on homogeneous spaces. (English summary) **2005a:22001**

20A15 Applications of logic to group theory

Belegradek, Oleg Discriminating and square-like groups. (English summary) **2005k:20001**
Corredor, Luis Jaime $(*)$-groups and pseudo-bad groups. (English summary) **2005k:20002**
Fine, Benjamin (*with* Gaglione, Anthony M.; Myasnikov, Aleksei G.; Rosenberger, Gerhard; Spellman, Dennis) Elementary theory of groups. (English summary) **2005i:20002**
— (*with* Gaglione, Anthony M.; Spellman, Dennis) The axiomatic closure of the class of discriminating groups. (English summary) **2005h:20001**
Gaglione, Anthony M. *see* **Fine, Benjamin et al., 2005h:20001** *and* **2005i:20002**
Myasnikov, Aleksei G. *see* **Fine, Benjamin et al., 2005i:20002**
Paulin, Frédéric Sur la théorie élémentaire des groupes libres (d'après Sela). (French summary) [On the elementary theory of free groups (following Sela)] **2005m:20004**
Rosenberger, Gerhard *see* **Fine, Benjamin et al., 2005i:20002**
Spellman, Dennis *see* **Fine, Benjamin et al., 2005h:20001** *and* **2005i:20002**
Tent, Katrin BN-pairs of finite Morley rank where B is solvable. (English summary) **2005c:20002**

Items with secondary classifications in 20A15

Berenstein, Alexander Simple stable homogeneous groups. (English summary) **2005a:03067**
Bunina, E. I. (*with* Mikhalëv, A. V.) Elementary properties of linear groups and related problems. **2005m:03067**
Burdges, Jeffrey A signalizer functor theorem for groups of finite Morley rank. **2005a:03068**
Cherlin, Gregory (*with* Jaligot, Eric) Tame minimal simple groups of finite Morley rank. (English summary) **2005b:20056**
Corredor, Luis Jaime (*with* Ortiz, Fabio) Results analogous to finite group theorems for groups of finite Morley rank. (Spanish. English and Spanish summaries) **2005d:03068**
Edmundo, Mário J. (*with* Otero, Margarita) Definably compact abelian groups. (English summary) **2005m:03073**
Eklof, Paul C. Whitehead modules. **2005b:16015**
Hjorth, Greg Group actions and countable models. **2005e:03104**
Jaligot, Eric *see* **Cherlin, Gregory, 2005b:20056**
Mikhalëv, A. V. *see* **Bunina, E. I., 2005m:03067**
Mustafin, Yerulan Structure des groupes linéaires définissables dans un corps de rang de Morley fini. (English summary) [Structure of linear groups defined in a field of finite Morley rank] **2005j:20057**
Ortiz, Fabio *see* **Corredor, Luis Jaime, 2005d:03068**
Otero, Margarita *see* **Edmundo, Mário J., 2005m:03073**
Remeslennikov, Vladimir (*with* Stöhr, Ralph) On the quasivariety generated by a non-cyclic free metabelian group. (English summary) **2005f:20050**
Schmerl, James H. Automorphism groups of models of Peano arithmetic. **2005b:03090**
Shalak, V. I. Logic of groups, and free groups. (Russian. English summary)
Smullyan, Raymond M. Equivalence relations and groups. (English summary) **2005b:03115**
Stöhr, Ralph *see* **Remeslennikov, Vladimir, 2005f:20050**

20A99 None of the above, but in this section

Aldosray, Falih A. M. Almost groups. (English summary)
Liu, Hongwei[1] Remarks on metahomomorphisms of groups. (Chinese. English and Chinese summaries)

Items with secondary classifications in 20A99

Aragon, Sergio The algebraic structure of physical quantities. (English summary) **2005d:92026**

20Bxx Permutation groups

20B05 General theory for finite groups

Baddeley, Robert W. (*with* Praeger, Cheryl E.; Schneider, Csaba) Transitive simple subgroups of wreath products in product action. (English summary) **2005f:20002**
Bamberg, John (*with* Praeger, Cheryl E.) Finite permutation groups with a transitive minimal normal subgroup. **2005d:20001**
Benbenisty, Carmit (*with* Shalev, Aner) Asymptotic behavior of finite permutation groups acting on subsets. (English summary) **2005m:20005**
Cameron, Peter J. Fixed points and cycles. (English summary) **2005d:20002**
— Partitions and permutations. (English summary) **2005k:20003**
Cohen, Jonathan A. Quantifying symmetry. (English summary)
Li, Qing Guo[1] *see* **Wu, Xiu Hua**
Muktibodh, A. S. Generalized con-cos groups. (English summary) **2005e:20002**
Praeger, Cheryl E. *see* **Bamberg, John, 2005d:20001** *and* **Baddeley, Robert W. et al., 2005f:20002**
Schneider, Csaba *see* **Baddeley, Robert W. et al., 2005f:20002**
Shalev, Aner *see* **Benbenisty, Carmit, 2005m:20005**
Shchukin, K. K. On primitive subgroups of a full affine group of a finite near-field. (Russian. Russian summary) **2005b:20005**
Wu, Xiu Hua (*with* Li, Qing Guo[1]) Congruence on a group. (Chinese. English and Chinese summaries)

Items with secondary classifications in 20B05

Lucchini, Andrea (*with* Morini, Fiorenza) The probability of generating a permutation group. (English summary) **2005m:20162**
— A 2-generated just-infinite profinite group which is not positively generated. (English summary) **2005c:20045**
Morini, Fiorenza *see* **Lucchini, Andrea, 2005m:20162**
Reiner, Victor (*with* Stanton, Dennis; White, Dennis E.) The cyclic sieving phenomenon. (English summary) **2005g:05014**
Stanton, Dennis *see* **Reiner, Victor et al., 2005g:05014**
White, Dennis E. *see* **Reiner, Victor et al., 2005g:05014**

20B07 General theory for infinite groups

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20C25 Projective representations and multipliers

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20C30 Representations of finite symmetric groups

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20C32 Representations of infinite symmetric groups

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20D15 Nilpotent groups, p-groups

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Arad, Zvi (*with* Herfort, Wolfgang) Classification of finite groups with a CC-subgroup. (English summary) **2005h:20043**
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Cossey, John (*with* Stonehewer, Stewart E.) The embedding of a cyclic permutable subgroup in a finite group. II. (English summary) **2005b:20044**
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Herfort, Wolfgang *see* **Arad, Zvi, 2005h:20043**
Hubert, Peter Local near-rings and triply factorized groups. (English summary) **2005g:16087**
Martínez-Pastor, A. *see* **Hauck, Peter et al., 2005b:20029**
Molokova, E. A. *see* **Al-Sharo, Kh. A. et al., 2005m:20046**
Pedraza-Aguilera, M. C. *see* **Ballester-Bolinches, Adolfo et al., 2005g:20041**
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20D45 Automorphisms

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Du, Ni (*with* Li, Shi Rong) Finite groups with automorphism group of order $4pq$. (Chinese. English and Chinese summaries) **2005b:20045**
Ercan, Gülin (*with* Güloğlu, İsmail Ş.) Finite groups admitting fixed-point free automorphisms of order pqr. **2005d:20037**
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Güloğlu, İsmail Ş. *see* **Ercan, Gülin, 2005d:20037**
Huang, Ping An (*with* Qian, Guo Hua) Finite groups whose automorphism groups have order prq^2. (Chinese. English and Chinese summaries) **2005e:20032**
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Kolesnikov, S. G. Automorphisms of Sylow p-subgroups of Chevalley groups defined over factor rings of the ring of integers. (Russian. Russian summary) **2005f:20041**
Li, Shi Rong *see* **Du, Ni, 2005b:20045**
Lu, Ruo-fei The orders of the automorphism groups of some groups of order p^6. (English and Chinese summaries)
MacHale, D. (*with* Sheehy, R.) Finite groups with few automorphisms. (English summary) **2005m:20053**
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20D60 Arithmetic and combinatorial problems

Alavi, S. H. (*with* Daneshkhah, Ashraf) A new characterization of alternating and symmetric groups. (English summary) **2005k:20052**
Bálek, Martin (*with* Drápal, Aleš; Zhukavets, Natalia) The neighbourhood of dihedral 2-groups. (English summary) **2005m:20054**
Daneshkhah, Ashraf *see* **Alavi, S. H., 2005k:20052**
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— *see also* **Bálek, Martin et al., 2005m:20054**
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Ginsburg, John (*with* Sands, Bill) On the number of elements dominated by a subgroup. (English summary) **2005j:20024**
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Khosravi, Behrooz *see* **Khosravi, Amir, 2005k:20053**
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Lucido, Maria Silvia (*with* Moghaddamfar, Ali Reza) Groups with complete prime graph connected components. (English summary) **2005c:20040**
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Alavi, S. H. (*with* Daneshkhah, Ashraf) Some finite simple groups which are not uniquely determined by their order components. (English summary) **2005j:20014**
— *see also* **Iranmanesh, Ali et al., 2005b:20027**
Arasu, K. T. (*with* Sehgal, Surinder) Cyclic difference covers. (English summary) **2005m:05035**
Beltrán, Antonio (*with* Felipe, María José) Prime powers as conjugacy class lengths of π-elements. (English summary) **2005a:20045**
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Bray, John N. (*with* Curtis, Robert T.) Double coset enumeration of symmetrically generated groups. (English summary) **2005b:20059**
Chen, Gui Yun *see* **Shi, Huaguo**
Combe, D. *see* **Abel, R. Julian R. et al., 2005a:05022**
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Yu, Hong Bing The number of k-sums of abelian groups of order k. **2005c:11021**

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Ashrafi, Ali Reza (*with* Venkataraman, Geetha) On finite groups whose every proper normal subgroup is a union of a given number of conjugacy classes. (English summary) **2005e:20033**
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Guo, Xiuyun Complemented minimal subgroups and the structure of finite groups. (English summary) (*see* **2005c:00013**)
Heliel, A. A. *see* **Asaad, M. et al., 2005h:20048**
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Qian, Guo Hua Finite groups with many elements of prime order. (Chinese. English and Chinese summaries) **2005k:20057**
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Havas, George (*with* Newman, M. F.; O'Brien, E. A.) On the efficiency of some finite groups. (English summary) **2005k:20078**
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Kowol, Gerhard Polynomial functions over groups: from algebraically closed groups to endomorphism near-rings. (English summary) **2005g:20065**
Liu, Xuefei *see* **Jiang, You Yi et al.**
Martínez Fernandez, Luis (*with* Đoković, Dragomir Ž.; Vera-López, Antonio) Existence question for difference families and construction of some new families. (English summary) **2005c:05031**
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Sidel'nikov, V. M. Association schemes and metrics on a finite group. (Russian) **2005i:05202**
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20Exx Structure and classification of infinite or finite groups

20E05 Free nonabelian groups

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Benyash-Krivets, V. V. On free subgroups in generalized triangle groups of type $(2, 2k, 2)$. (Russian. English and Russian summaries) **2005j:20027**
Booth, Richard F. (*with* Bormotov, Dmitry Y.; Borovik, Alexandre V.) Genetic algorithms and equations in free groups and semigroups. (English summary) **2005h:20050**
Bormotov, Dmitry Y. Experimenting with primitive elements in F_2. (English summary) **2005e:20035**
— *see also* **Booth, Richard F. et al., 2005h:20050**
Borovik, Alexandre V. *see* **Booth, Richard F. et al., 2005h:20050**
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Ferreira, Vitor O. (*with* Gonçalves, Jairo Z.; Mandel, Arnaldo) Free symmetric and unitary pairs in division rings with involution. (English summary) **2005m:20055**
Gilman, Robert H. (*with* Myasnikov, Aleksei G.) One variable equations in free groups via context free languages. (English summary) **2005m:20056**
Goldstein, Richard Z. The density of small words in a free group is 0. (English summary) **2005h:20051**
Gonçalves, Jairo Z. *see* **Ferreira, Vitor O. et al., 2005m:20055**
Hurley, Ted Dimension and Fox subgroups. (English summary) **2005a:20036**
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Kassabov, Martin An automorphism of a free metabelian group without fixed points. (English summary) **2005g:20044**
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— Uncountable homomorphic images of Polish groups are not $\aleph_1$-free groups. (English summary) **2005k:20059**
Magnus, Wilhelm (*with* Karrass, Abraham; Solitar, Donald) ★ Combinatorial group theory. **2005h:20052**
Mandel, Arnaldo *see* **Ferreira, Vitor O. et al., 2005m:20055**
Martino, Armando Intersections of automorphism fixed subgroups in the free group of rank three. (English summary) **2005d:20039**
— (*with* Ventura Capell, Enric) Fixed subgroups are compressed in free groups. (English summary) **2005i:20033**
— (*with* Ventura Capell, Enric) A description of auto-fixed subgroups in a free group. (English summary) **2005e:20036**
Myasnikov, Aleksei G. *see* **Gilman, Robert H., 2005m:20056**

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Shpilrain, Vladimir *see* **Bardakov, V. G. et al., 2005k:20058**
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Tolstykh, Vladimir *see* **Bardakov, V. G. et al., 2005k:20058**
Ventura Capell, Enric *see* **Martino, Armando, 2005e:20036** *and* **2005i:20033**

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(Borovik, Alexandre V.) *see* **Computational and experimental group theory, 2005b:20003**
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D'Alessandro, Flavio Free groups of quaternions. (English summary) **2005b:16041**
Fine, Benjamin (*with* Gaglione, Anthony M.; Myasnikov, Aleksei G.; Rosenberger, Gerhard; Spellman, Dennis) Elementary theory of groups. (English summary) **2005i:20002**
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Haralick, Robert M. (*with* Myasnikov, Alexei D.; Myasnikov, Aleksei G.) Pattern recognition approaches to solving combinatorial problems in free groups. (English summary) **2005f:20065**
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Khan, Bilal The structure of automorphic conjugacy in the free group of rank two. (English summary) **2005f:20066**
Kulikova, O. V. On intersections of normal subgroups in free groups. (English summary) **2005f:20059**
Metaftsis, V. (*with* Raptis, E.) Subgroup separability of graphs of nilpotent groups. (English summary) **2005d:20048**
— (*with* Raptis, E.) Subgroup separability of graphs of abelian groups. (English summary) **2005d:20049**
Mikhalëv, A. A. (*with* Shpilrain, Vladimir; Umirbaev, Ualbai U.) On isomorphism of Lie algebras with one defining relation. (English summary) **2005d:17008**
Myasnikov, Aleksei G. *see* **Computational and experimental group theory, 2005b:20003; Haralick, Robert M. et al., 2005f:20065** *and* **Fine, Benjamin et al., 2005i:20002**
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Nekritsukhin, A. I. Generators of a subgroup of the automorphism group of a free group of rank four. (Russian. Russian summary) **2005h:20085**
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Rosenberger, Gerhard *see* **Fine, Benjamin et al., 2005i:20002**
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Spellman, Dennis *see* **Fine, Benjamin et al., 2005i:20002**
Thomas, Christopher Determining whether a finite group of outer automorphisms of a free group is geometric. (English summary) **2005h:20086**
Umirbaev, Ualbai U. *see* **Mikhalëv, A. A. et al., 2005d:17008**
(Ventura Capell, Enric) *see* **Rivin, Igor, 2005h:20099**
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Vorobets, Yaroslav On faithful actions of groups and semigroups by orientation-preserving plane isometries. (English summary) **2005h:20152**
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20E06 Free products, free products with amalgamation, Higman-Neumann-Neumann extensions, and generalizations

Adyan, S. I. (*with* Grunewald, Fritz J.; Mennicke, Jens L.) On prime quaternions, Hurwitz relations, and a new operation of group extension. (Russian. Russian summary) **2005e:20037**
Bezverkhniĭ, V. N. *see* **Dobrynina, I. V., 2005a:20037**
Braun, Gábor A proof of Higgins's conjecture. (English summary) **2005f:20044**
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Ivanov, Aleksandr Anatol'evich (*with* Shpektorov, S. V.) Amalgams determined by locally projective actions. (English summary) **2005m:20057**
Ivanova, E. A. On the approximability with respect to conjugacy of free products of two groups with an amalgamated subgroup by finite p-groups. (Russian. Russian summary) **2005j:20028**
Juhász, Arye On powered one-relator HNN-extensions of groups. **2005h:20053**
Mahmood, R. M. S. A remark on the intersection of the conjugates of the base of quasi-HNN groups. (English summary) **2005h:20054**
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Oliĭnyk, A. S. (*with* Sushchanskiĭ, V. I.) Representations of free products by infinite unitriangular matrices over finite fields. (English summary) **2005i:20034**
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Scott, G. Peter (*with* Swarup, Gadde A.) Regular neighbourhoods and canonical decompositions for groups. (English and French summaries) **2005f:20045**
Shpektorov, S. V. *see* **Ivanov, Aleksandr Anatol'evich, 2005m:20057**
Sushchanskiĭ, V. I. *see* **Oliĭnyk, A. S., 2005i:20034**
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Collins, D. J. Intersections of Magnus subgroups of one-relator groups. **2005k:20077**
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Dranishnikov, Alexander *see* **Bell, Gregory C. et al., 2005g:20064**
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Glasner, Yair A two-dimensional version of the Goldschmidt-Sims conjecture. (English summary) **2005h:20057**
Juhász, Arye On the solvability of equations over groups. (English summary) **2005m:20079**
Karrass, Abraham *see* **Magnus, Wilhelm et al., 2005h:20052**
Keesling, James E. *see* **Bell, Gregory C. et al., 2005g:20064**
Kim, Goansu On the residual finiteness of fundamental groups of graphs of certain groups. (English summary) **2005h:20066**
— (*with* Tang, Francis C. Y.) Conjugacy separability of certain HNN extensions of groups. (English summary) **2005m:20069**
— *see also* **Allenby, R. B. J. T. et al., 2005k:20071**
Lunau, Paul Automatic structures for fundamental groupoids of graphs of groups. (English summary) **2005k:20138**
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Macpherson, Dugald (*with* Thomas, Simon R.) Comeagre conjugacy classes and free products with amalgamation. (English summary) **2005j:20029**
Magnus, Wilhelm (*with* Karrass, Abraham; Solitar, Donald) ★ Combinatorial group theory. **2005h:20052**
Martino, Armando (*with* O Rourke, S.) Some free actions on non-Archimedean trees. (English summary) **2005b:20047**
Metaftsis, V. (*with* Raptis, E.) Subgroup separability of graphs of nilpotent groups. (English summary) **2005d:20048**
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Müller, Thomas W. Parity patterns in Hecke groups and Fermat primes. **2005h:20055**
Niblo, Graham A. A geometric proof of Stallings' theorem on groups with more than one end. (English summary) **2005e:20060**
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Senkevich, O. E. Conjugacy separability of descending HNN-extensions of finitely generated abelian groups. (Russian. English and Russian summaries) **2005m:20070**
Solitar, Donald *see* **Magnus, Wilhelm et al., 2005h:20052**
Sykiotis, Mihalis Stable representatives for symmetric automorphisms of groups and the general form of the Scott conjecture. (English summary) **2005b:20057**
Tang, Francis C. Y. *see* **Allenby, R. B. J. T. et al., 2005k:20071** *and* **Kim, Goansu, 2005m:20069**
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20E07 Subgroup theorems; subgroup growth

Larsen, Michael J. (*with* Lubotzky, Alexander) Normal subgroup growth of linear groups: the (G_2, F_4, E_8)-theorem. **2005k:20061**
Lubotzky, Alexander *see* **Larsen, Michael J., 2005k:20061**
Müller, Thomas W. Parity patterns in Hecke groups and Fermat primes. **2005h:20055**
du Sautoy, Marcus Zeta functions of groups: the quest for order versus the flight from ennui. **2005i:20035**
Segal, Daniel On the finite images of infinite groups. **2005k:20062**
You, Xing Zhong *see* **Zhou, Wei[1]**
Zhou, Wei[1] (*with* You, Xing Zhong) No groups with only two nonnormal subgroups. (Chinese. English and Chinese summaries)

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Braun, Gábor A proof of Higgins's conjecture. (English summary) **2005f:20044**
Detomi, Eloisa (*with* Lucchini, Andrea) Profinite groups with multiplicative probabilistic zeta function. (English summary) **2005e:20039**
Ershov, Mikhail New just-infinite pro-p groups of finite width and subgroups of the Nottingham group. (English summary) **2005b:20052**
Evans, Martin J. (*with* Kim, Youngmi) On groups in which every subgroup of infinite rank is subnormal of bounded defect. (English summary) **2005i:20058**
Griffin, Cornelius Associating curves of low genus to infinite nilpotent groups via the zeta function. (English summary) **2005e:11111**
Grigni, Michelangelo (*with* Schulman, Leonard J.; Vazirani, Monica; Vazirani, Umesh V.) Quantum mechanical algorithms for the nonabelian hidden subgroup problem. (English summary) (*see* **2005j:68008**)
Hurley, Ted Dimension and Fox subgroups. (English summary) **2005a:20036**

Jaikin-Zapirain, Andrei The number of finite p-groups with bounded number of generators. (English summary) **2005j:20023**
Kim, Youngmi *see* **Evans, Martin J., 2005i:20058**
Liebeck, Martin W. (*with* Shalev, Aner) Fuchsian groups, coverings of Riemann surfaces, subgroup growth, random quotients and random walks. (English summary) **2005e:20076**
Lucchini, Andrea *see* **Detomi, Eloisa, 2005e:20039**
Martino, Armando Intersections of automorphism fixed subgroups in the free group of rank three. (English summary) **2005d:20039**
Rivin, Igor Some properties of the conjugacy class growth function. (English summary) **2005h:20073**
Schulman, Leonard J. *see* **Grigni, Michelangelo et al., (2005j:68008)**
Shalev, Aner *see* **Liebeck, Martin W., 2005e:20076**
Vazirani, Monica *see* **Grigni, Michelangelo et al., (2005j:68008)**
Vazirani, Umesh V. *see* **Grigni, Michelangelo et al., (2005j:68008)**
Xie, Xiangdong Groups acting on CAT(0) square complexes. (English summary) **2005m:20103**

20E08 Groups acting on trees [see also 20F65]

Abért, Miklós (*with* Virág, Bálint) Dimension and randomness in groups acting on rooted trees. **2005m:20058**
Bartholdi, Laurent (*with* Grigorchuk, Rostislav I.; Nekrashevych, Volodymyr V.) From fractal groups to fractal sets. **2005h:20056**
— (*with* Grigorchuk, Rostislav I.; Šuník, Zoran) Branch groups. **2005f:20046**
Bondarenko, E. (*with* Nekrashevych, Volodymyr V.) Post-critically finite self-similar groups. (English summary) **2005d:20041**
Carbone, Lisa Non-minimal tree actions and the existence of non-uniform tree lattices. (English summary) **2005m:20059**
Chiswell, I. M. Irreducible and end type group actions on Λ-trees. (English summary) **2005d:20042**
Demir, Selçuk Some finiteness results in the representation theory of isometry groups of regular trees. (English summary) **2005f:20047**
Firer, Marcelo *see* **Talpo, Humberto Luiz, 2005m:20063**
Gal, Światosław R. a-T-menability of groups acting on trees. (English summary) **2005b:20046**
Glasner, Yair A two-dimensional version of the Goldschmidt-Sims conjecture. (English summary) **2005h:20057**
Grigorchuk, Rostislav I. *see* **Bartholdi, Laurent et al., 2005f:20046** *and* **2005h:20056**
Guirardel, Vincent Limit groups and groups acting freely on $\mathbb{R}^n$-trees. (English summary) **2005m:20060**
Ivanov, Alexandre A. Group actions on pretrees and definability. (English summary) **2005m:20061**
— (*with* Kossak, Roman) Automorphism group actions on trees. (English summary) **2005h:20058**
Kellil, Ferdaous (*with* Rousseau, Guy) Transformation de Poisson sur un arbre localement fini. (French summary) [Poisson transform on a locally finite tree] **2005k:20063**
Kossak, Roman *see* **Ivanov, Alexandre A., 2005h:20058**
Lavrenyuk, Yaroslav V. On the finite state automorphism group of a rooted tree. (English summary) **2005a:20038**
Macpherson, Dugald (*with* Thomas, Simon R.) Comeagre conjugacy classes and free products with amalgamation. (English summary) **2005j:20029**
Mahmood, R. M. S. On bounded subgroups of quasi HNN groups. (English summary) **2005h:20059**
Mamaghani, M. J. A class of two generated automaton groups on a three letter alphabet. (English and Persian summaries) **2005m:20062**
Martino, Armando (*with* O Rourke, S.) Some free actions on non-Archimedean trees. (English summary) **2005b:20047**
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— *see also* **Bondarenko, E., 2005d:20041** *and* **Bartholdi, Laurent et al., 2005h:20056**
O Rourke, S. *see* **Martino, Armando, 2005b:20047**
Rousseau, Guy *see* **Kellil, Ferdaous, 2005k:20063**
Sidki, S. N. Finite automata of polynomial growth do not generate a free group. (English summary) **2005h:20060**
— *see also* **Nekrashevych, Volodymyr V., 2005d:20043**
Šuník, Zoran *see* **Bartholdi, Laurent et al., 2005f:20046**
Szaszkowski, Zbigniew Dynamics of finite groups acting on the boundary of homogeneous rooted tree. (English summary) **2005c:20041**
Talpo, Humberto Luiz (*with* Firer, Marcelo) Trees and reflection groups. (English summary) **2005m:20063**
Thomas, Simon R. *see* **Macpherson, Dugald, 2005j:20029**
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Bartholdi, Laurent The 2-dimension series of the just-nonsolvable BSV group. (English summary) **2005f:20063**
Bell, Gregory C. (*with* Dranishnikov, Alexander) On asymptotic dimension of groups acting on trees. (English summary) **2005b:20078**
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Dranishnikov, Alexander *see* **Bell, Gregory C., 2005b:20078**
Forester, Max On uniqueness of JSJ decompositions of finitely generated groups. (English summary) **2005b:20075**
Grigorchuk, Rostislav I. (*with* Wilson, John S.) A minimality property of certain branch groups. **2005e:20067**
Ivanov, Aleksandr Anatol'evich (*with* Pasechnik, Dmitrii V.) Minimal representations of locally projective amalgams. (English summary) **2005k:20006**
Kapovich, Ilya (*with* Weidmann, Richard) Acylindrical accessibility for groups acting on $\mathbb{R}$-trees. (English summary) **2005m:20100**
Kim, Goansu On the residual finiteness of fundamental groups of graphs of certain groups. (English summary) **2005h:20066**
Lavrenyuk, Yaroslav V. (*with* Sushchanskiĭ, V. I.) Automorphisms of homogeneous symmetric groups and hierarchomorphisms of rooted trees. (English summary) **2005f:20071**
Mahmood, R. M. S. A remark on the intersection of the conjugates of the base of quasi-HNN groups. (English summary) **2005h:20054**
Metaftsis, V. (*with* Raptis, E.) Subgroup separability of graphs of nilpotent groups. (English summary) **2005d:20048**
— (*with* Raptis, E.) Subgroup separability of graphs of abelian groups. (English summary) **2005d:20049**
Nekrashevych, Volodymyr V. Virtual endomorphisms of groups. **2005b:20079**
— Hyperbolic spaces from self-similar group actions. (English summary) **2005d:37013**
— Cuntz-Pimsner algebras of group actions. (English summary) **2005k:46138**
Pasechnik, Dmitrii V. *see* **Ivanov, Aleksandr Anatol'evich, 2005k:20006**
Paulin, Frédéric Sur la théorie élémentaire des groupes libres (d'après Sela). (French summary) [On the elementary theory of free groups (following Sela)] **2005m:20004**
Raptis, E. (*with* Talelli, O.; Varsos, D.) On residual finiteness of graphs of nilpotent groups. (English summary) **2005d:20050**
— *see also* **Metaftsis, V., 2005d:20048** *and* **2005d:20049**
Ronan, Mark Multiple trees. **2005a:20042**
Scott, G. Peter (*with* Swarup, Gadde A.) Regular neighbourhoods and canonical decompositions for groups. (English and French summaries) **2005f:20045**
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Sushchanskiĭ, V. I. *see* **Lavrenyuk, Yaroslav V., 2005f:20071**
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Sykiotis, Mihalis Stable representatives for symmetric automorphisms of groups and the general form of the Scott conjecture. (English summary) **2005b:20057**
Talelli, O. *see* **Raptis, E. et al., 2005d:20050**
Varsos, D. *see* **Raptis, E. et al., 2005d:20050**
Wall, Charles Terence Clegg The geometry of abstract groups and their splittings. (English summary) **2005a:20062**
Weidmann, Richard *see* **Kapovich, Ilya, 2005m:20100**
Wilson, John S. *see* **Grigorchuk, Rostislav I., 2005e:20067**

20E10 Quasivarieties and varieties of groups

Bajorska, B. (*with* Macedońska, O.) On positive law problems in the class of locally graded groups. (English summary) **2005h:20061**
Cavicchioli, Alberto (*with* Spaggiari, Fulvia) Varieties of Fibonacci type. **2005f:20048**
Ivanov, Sergei Vladimir (*with* Storozhev, A. M.) On varieties of groups in which all periodic groups are abelian. (English summary) **2005h:20062**
Kasimova, R. R. (*with* Krasil'nikov, A. N.) Some nonfinitely based varieties of group representations. (English summary) **2005m:20064**
Kayvanfar, S. *see* **Moghaddam, Mohammad Reza R. et al., 2005b:20048**
Khudyakov, V. A. Quasivarieties of metric algebras. (Russian. Russian summary) **2005c:20042**
Koppitz, Jörg Hypersubstitutions and groups. (English summary) **2005m:20065**
Krasil'nikov, A. N. *see* **Kasimova, R. R., 2005m:20064**
Lapshina, E. S. On the primitive width of relatively free groups. (Russian. Russian summary) **2005a:20039**
Macedońska, O. *see* **Bajorska, B., 2005h:20061**
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Mikaelyan, V. G. On normal verbal embeddings of some classes of groups. (English summary) **2005k:20064**
Moghaddam, Mohammad Reza R. (*with* Salemkar, Ali Reza) Generalized Schreier variety and a criterion for non-existence of covering groups. (English summary) **2005f:20049**
— (*with* Mashayekhy, B.; Kayvanfar, S.) The higher Schur-multiplicator of certain class of groups. (English summary) **2005b:20048**
— (*with* Rismanchian, Mohammad Reza; Salemkar, Ali Reza) Generalized Baer-invariant of groups and the direct limit. (English summary) **2005e:20038**
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Riley, David Michael (*with* Shumyatsky, Pavel) Groups with a positive law on commutators. (English summary) **2005i:20036**
Rismanchian, Mohammad Reza *see* **Moghaddam, Mohammad Reza R. et al., 2005e:20038**
Salemkar, Ali Reza *see* **Moghaddam, Mohammad Reza R. et al., 2005e:20038** *and* **2005f:20049**
Shumyatsky, Pavel A variety of groups. (English summary) **2005k:20065**
— *see also* **Riley, David Michael, 2005i:20036**
Spaggiari, Fulvia *see* **Cavicchioli, Alberto, 2005f:20048**
Stöhr, Ralph *see* **Remeslennikov, Vladimir, 2005f:20050**
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Syrtsov, A. V. Verbal products of Magnus groups. (Russian. English and Russian summaries) **2005k:20066**

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Broglia, F. (*with* Elkhadiri, Abdelhafed; Pieroni, Federica) Formal relations between quasianalytic functions of some fixed class. (English summary) **2005e:32014**
Burns, R. G. (*with* Medvedev, Yuriĭ Aleksandrovich) Analytic relatively free pro-p groups. (English summary) **2005i:20039**
Elkhadiri, Abdelhafed *see* **Broglia, F. et al., 2005e:32014**
Li, Qianlu Which words have an efficient result? (English summary) **2005g:20052**
Medvedev, Yuriĭ Aleksandrovich *see* **Burns, R. G., 2005i:20039**
Mikaelyan, V. G. On wreath products of finitely generated abelian groups. (English summary) **2005b:20054**
— Infinitely many not locally soluble SI^*-groups. (English summary) **2005g:20054**
Pieroni, Federica *see* **Broglia, F. et al., 2005e:32014**

Sandu, N. I. Infinite independent systems of the identities of the associative algebra over an infinite field of characteristic $p > 0$. (English summary) **2005m:16031**
Vaughan-Lee, Michael Lie methods in group theory. (English summary) **2005c:20063**

20E15 Chains and lattices of subgroups, subnormal subgroups [see also 20F22]

Casolo, Carlo (*with* Dardano, Ulderico) Subnormality in the join of two subgroups. (English summary) **2005m:20066**
Chernikov, N. S. Groups which are factorized by subgroups of finite exponents. (English summary) **2005m:20067**
Dardano, Ulderico *see* **Casolo, Carlo**, **2005m:20066**
De Falco, Maria (*with* Musella, Carmela) A normalizer condition for modular subgroups. **2005d:20044**
— (*with* de Giovanni, Francesco; Musella, Carmela) Groups with modular subgroup lattice. **2005c:20043**
— (*with* de Giovanni, Francesco; Musella, Carmela; Sysak, Yaroslav) Periodic groups with nearly modular subgroup lattice. (English summary) **2005b:20049**
— (*with* de Giovanni, Francesco; Musella, Carmela) Groups in which every subgroup is modular-by-finite. (English summary) **2005f:20051**
— (*with* de Giovanni, Francesco; Musella, Carmela; Schmidt, Roland) Detecting the index of a subgroup in the subgroup lattice. (English summary) **2005i:20037**
De Mari, Fausto Groups with dense modular subgroups. **2005b:20050**
Detomi, Eloisa On groups with all subgroups almost subnormal. (English summary) **2005d:20045**
de Giovanni, Francesco (*with* Vincenzi, Giovanni) Pseudonormal subgroups of groups. (English summary) **2005f:20052**
— (*with* Paek, Dae Hyun; Robinson, Derek J. S.; Russo, Alessio) The maximal and minimal conditions for normal subgroups of infinite order or index. (English summary) **2005k:20067**
— *see also* **De Falco, Maria et al.**, **2005b:20049**; **2005c:20043**; **2005f:20051** *and* **2005i:20037**
Kearnes, Keith A. (*with* Szendrei, Ágnes) Groups with identical subgroup lattices in all powers. (English summary) **2005i:20038**
Krempa, Jan On uniformity in lattices of subgroups. (English summary) **2005d:20046**
Kurdachenko, Leonid A. (*with* Smith, Howard) Groups with all subgroups either subnormal or self-normalizing. (English summary) **2005k:20068**
Musella, Carmela *see* **De Falco, Maria et al.**, **2005b:20049**; **2005c:20043**; **2005d:20044**; **2005f:20051** *and* **2005i:20037**
Paek, Dae Hyun Locally nilpotent groups with the minimal condition on normal subgroups of infinite index. (English summary) **2005h:20063**
— *see also* **de Giovanni, Francesco et al.**, **2005k:20067**
Pálfy, Péter P. Groups and lattices. (English summary) **2005b:20051**
Robinson, Derek J. S. *see* **de Giovanni, Francesco et al.**, **2005k:20067**
Russo, Alessio *see* **de Giovanni, Francesco et al.**, **2005k:20067**
Schmidt, Roland *see* **De Falco, Maria et al.**, **2005i:20037**
Smith, Howard *see* **Kurdachenko, Leonid A.**, **2005k:20068**
Sysak, Yaroslav *see* **De Falco, Maria et al.**, **2005b:20049**
Szendrei, Ágnes *see* **Kearnes, Keith A.**, **2005i:20038**
Vincenzi, Giovanni *see* **de Giovanni, Francesco**, **2005f:20052**

Items with secondary classifications in 20E15

Arıkan, Ahmet *see* **Ercan, Selami**, **2005b:20063**
Detomi, Eloisa (*with* Lucchini, Andrea) Profinite groups with multiplicative probabilistic zeta function. (English summary) **2005e:20039**
Díaz-Barriga, Alejandro J. (*with* González-Acuña, Francisco; Marmolejo, Francisco; Román, Leopoldo) Active sums. I. (English summary) **2005i:20032**
Ercan, Selami (*with* Arıkan, Ahmet) On certain generalizations of groups with all subgroups subnormal. (English summary) **2005b:20063**
González-Acuña, Francisco *see* **Díaz-Barriga, Alejandro J. et al.**, **2005i:20032**
Grigorchuk, Rostislav I. (*with* Wilson, John S.) A minimality property of certain branch groups. **2005e:20067**
Lucchini, Andrea *see* **Detomi, Eloisa**, **2005e:20039**
Marmolejo, Francisco *see* **Díaz-Barriga, Alejandro J. et al.**, **2005i:20032**
Mikaelyan, V. G. Infinitely many not locally soluble SI^*-groups. (English summary) **2005g:20054**
Paek, Dae Hyun Locally nilpotent groups with the maximal condition on infinite normal subgroups. (English summary) **2005e:20049**
Román, Leopoldo *see* **Díaz-Barriga, Alejandro J. et al.**, **2005i:20032**
Schmidt, Roland Finite groups with metadistributive subgroup lattice. (English summary) **2005a:20035**
Shareshian, John Hypergraph matching complexes and Quillen complexes of symmetric groups. (English summary) **2005e:20029**
Stepanov, Aleksei Vladimirovich Non-standard subgroups between $E_n(R)$ and $\mathrm{GL}_n(A)$. (English summary) **2005d:20093**
Wilson, John S. *see* **Grigorchuk, Rostislav I.**, **2005e:20067**

20E18 Limits, profinite groups

Auinger, K. (*with* Steinberg, Benjamin) The geometry of profinite graphs with applications to free groups and finite monoids. (English summary) **2005a:20040**
Basarab, Șerban A. Kneser and hereditarily Kneser subgroups of a profinite group. (English summary) **2005g:20045**
Bridson, Martin R. (*with* Grunewald, Fritz J.) Grothendieck's problems concerning profinite completions and representations of groups. (English summary) **2005k:20069**
Burns, R. G. (*with* Medvedev, Yurii Aleksandrovich) Analytic relatively free pro-p groups. (English summary) **2005i:20039**
Camina, Rachel (*with* du Sautoy, Marcus) Linearity of $\mathbb{Z}_p[[t]]$-perfect groups. (English summary) **2005i:20040**
Detomi, Eloisa (*with* Lucchini, Andrea) Profinite groups with multiplicative probabilistic zeta function. (English summary) **2005e:20039**
Engler, Antonio José (*with* Haran, D.; Kochloukova, Dessislava H.; Zalesskii, P. A.) Normal subgroups of profinite groups of finite cohomological dimension. (English summary) **2005i:20041**
Ershov, Mikhail New just-infinite pro-p groups of finite width and subgroups of the Nottingham group. (English summary) **2005b:20052**
Griffin, Cornelius Some hereditarily just infinite subgroups of $\mathcal{F}$. (English summary) **2005g:20046**
Grunewald, Fritz J. *see* **Bridson, Martin R.**, **2005k:20069**
Haran, D. *see* **Engler, Antonio José et al.**, **2005i:20041**
Herfort, Wolfgang (*with* Zalesskii, P. A.) Virtually free pro-p groups. (English and French summaries) **2005c:20044**
Kochloukova, Dessislava H. (*with* Zalesskii, P. A.) Free-by-Demushkin pro-p groups. (English summary) **2005j:20030**
— *see also* **Engler, Antonio José et al.**, **2005i:20041**
Korenev, A. A. Pro-p groups with a finite number of ends. (Russian. Russian summary) **2005i:20042**
Koya, Yoshihiro An analogue of Brumer's criterion for hypercohomology groups and class formations. (English summary) **2005j:20031**
Lucchini, Andrea A 2-generated just-infinite profinite group which is not positively generated. (English summary) **2005c:20045**
— *see also* **Detomi, Eloisa**, **2005e:20039**
Medvedev, Yurii Aleksandrovich *see* **Burns, R. G.**, **2005i:20039**
Ohtani, Sachiko On certain closed normal subgroups of free profinite groups of countably infinite rank. (English summary) **2005g:20047**
du Sautoy, Marcus *see* **Camina, Rachel**, **2005i:20040**
Steinberg, Benjamin *see* **Auinger, K.**, **2005a:20040**
Szegedy, Balázs Almost all finitely generated subgroups of the Nottingham group are free. (English summary) **2005k:20070**
Zalesskii, P. A. On virtually projective groups. (English summary) **2005h:20064**
— *see also* **Herfort, Wolfgang**, **2005c:20044**; **Engler, Antonio José et al.**, **2005i:20041** *and* **Kochloukova, Dessislava H.**, **2005j:20030**

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Abért, Miklós (*with* Virág, Bálint) Dimension and randomness in groups acting on rooted trees. **2005m:20058**
Eick, Bettina Determination of the uniserial space groups with a given coclass. (English summary) **2005m:20051**
Engler, Antonio José A recursive description of pro-p Galois groups. (English summary) **2005a:12006**
Enochs, Edgar E. (*with* Estrada, Sergio) CoGalois groups as metric spaces. (English summary) **2005i:20085**
Estrada, Sergio *see* **Enochs, Edgar E.**, **2005i:20085**
González-Sánchez, Jon (*with* Wilson, Lawrence E.) The power structure of finite p-groups satisfying conditions like those of Lazard. (English summary) **2005j:20021**
Kan, Hai Bin *see* **Liu, He Guo**, **2005d:20047**
Klopsch, Benjamin On the Lie theory of p-adic analytic groups. (English summary) **2005k:22012**
Kochloukova, Dessislava H. Invariants of discrete groups, Lie algebras and pro-p groups. **2005d:20095**
Laubie, François Ramification des séries formelles. (English summary) [Ramification of formal power series] **2005c:11145**
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20E22 Extensions, wreath products, and other compositions [see also 20J05]

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20E25 Local properties

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— Fixed point free actions of groups of exponent 5. (English summary) **2005i:20062**
Kent, Richard P., IV Bundles, handcuffs, and local freedom. (English summary) **2005f:57012**
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20E26 Residual properties and generalizations

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20E28 Maximal subgroups

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Liebeck, Martin W. (*with* Seitz, Gary M.) Maximal subgroups of large rank in exceptional groups of Lie type. (English summary) **2005m:20040**
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20E32 Simple groups [see also 20D05]

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20E34 General structure theorems

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20E36 General theorems concerning automorphisms of groups

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20E42 Groups with a BN-pair; buildings [see also 51E24]

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Alon, Gil (*with* de Shalit, Ehud) Cohomology of discrete groups in harmonic cochains on buildings. (English summary) **2005b:14037**
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20E45 Conjugacy classes

Arad, Zvi (*with* Muzychuk, Mikhail; Oliver, Avital) On groups with conjugacy classes of distinct sizes. (English summary) **2005e:20044**
Ashrafi, Ali Reza On X-decomposable finite groups. (English and Russian summaries)
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Samol, Kira (*with* Tresch, Achim) On a conjecture on algebras that are locally embeddable into finite dimensional algebras. (English summary) **2005h:16051**
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20Fxx Special aspects of infinite or finite groups

20F05 Generators, relations, and presentations

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Atabekyan, V. S. On the construction of defining relations of free periodic groups. (English summary)
Bray, John N. (*with* Curtis, Robert T.) Double coset enumeration of symmetrically generated groups. (English summary) **2005b:20059**
Campbell, Colin Matthew (*with* Campbell, P. P.; Doostie, H.; Robertson, Edmund) On the Fibonacci length of powers of dihedral groups. **2005e:20045**
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Dikranjan, Dikran (*with* Marconi, Umberto; Moresco, Roberto) Groups with a small set of generators. (English summary) **2005f:20056**
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Spaggiari, Fulvia *see* **Cavicchioli, Alberto et al., 2005m:20075**
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Benyash-Krivets, V. V. On free subgroups in generalized triangle groups of type $(2, 2k, 2)$. (Russian. English and Russian summaries) **2005j:20027**
Berrick, A. J. (*with* Wong, Yan-Loi) Acyclic groups and wild arcs. (English summary) **2005i:20080**
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Bezverkhnyaya, N. B. Hyperbolicity of some HNN-extensions of free groups. (Russian) **2005d:20072**
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— *see also* **Sapir, Mark V. et al., 2005b:20077a**

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Cavicchioli, Alberto (*with* Spaggiari, Fulvia) Varieties of Fibonacci type. **2005f:20048**
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Coornaert, Michel (*with* Knieper, Gerhard) An upper bound for the growth of conjugacy classes in torsion-free word hyperbolic groups. (English summary) **2005f:20078**
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Dey, Partha Pratim Exploring invariant linear codes through generators and centralizers. (English summary) **2005i:94017**
Dobrynina, I. V. (*with* Bezverkhniĭ, V. N.) On width in some class of groups with two generators and one defining relation. (English summary) **2005a:20037**
Erschler-Dyubina, Anna Growth rates of small cancellation groups. (English summary) **2005f:20061**
Fine, Benjamin (*with* Gaglione, Anthony M.; Myasnikov, Aleksei G.; Rosenberger, Gerhard; Spellman, Dennis) Elementary theory of groups. (English summary) **2005i:20002**
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Grigorchuk, Rostislav I. (*with* Sidki, S. N.) The group of automorphisms of a 3-generated 2-group of intermediate growth. (English summary) **2005k:20086**
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Heyworth, Anne (*with* Wensley, Christopher D.) Logged rewriting and identities among relators. (English summary) **2005d:68073**
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Juhász, Arye On powered one-relator HNN-extensions of groups. **2005h:20053**
Kapovich, Ilya (*with* Schupp, Paul) Genericity, the Arzhantseva-Ol'shanskii method and the isomorphism problem for one-relator groups. (English summary) **2005h:20079**
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Kayvanfar, S. *see* **Moghaddam, Mohammad Reza R. et al.**, **2005b:20048**
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Korchagin, A. B. On birational monomial transformations of plane. (English summary) **2005f:14030**
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Mennicke, Jens L. *see* **Adyan, S. I. et al.**, **2005e:20037**
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Moghani, G. A. *see* **Darafsheh, M. R. et al.**, **2005a:20026** *and* **2005g:20030**
Mulazzani, Michele (1, 1)-knots and Dunwoody manifolds. (English summary) **2005k:57053**
Müller, Meinard (*with* Clausen, Michael) DFT-based word normalization in finite supersolvable groups. (English summary) **2005i:20055**
Mushtaq, Qaiser *see* **Ashiq, Muhammad**, **2005g:20077**
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Northshield, Sam Cogrowth of arbitrary graphs. (English summary) **2005g:05071**
Ol'shanskii, A. Yu. *see* **Birget, Jean-Camille et al.**, **2005b:20077b**
Pérez-Rosés, Hebert *see* **Borges-Trenard, Miguel A.**, **2005c:20064**
Rips, Eliyahu *see* **Sapir, Mark V. et al.**, **2005b:20077a** *and* **Birget, Jean-Camille et al.**, **2005b:20077b**
Romanovskiĭ, N. S. *see* **Gupta, Chander Kanta**, **2005g:20053**
Rosenberger, Gerhard *see* **Fine, Benjamin et al.**, **2005i:20002**
Sapir, Mark V. (*with* Birget, Jean-Camille; Rips, Eliyahu) Isoperimetric and isodiametric functions of groups. (English summary) **2005b:20077a**
— *see also* **Birget, Jean-Camille et al.**, **2005b:20077b**
Schmit, C. *see* **Bogomol'nyĭ, E. B.**, **2005f:81073**
Schupp, Paul *see* **Kapovich, Ilya**, **2005h:20079**
Sidki, S. N. Finite automata of polynomial growth do not generate a free group. (English summary) **2005h:20060**
— *see also* **Grigorchuk, Rostislav I.**, **2005k:20086**
Spaggiari, Fulvia *see* **Cavicchioli, Alberto**, **2005f:20048**
Spellman, Dennis *see* **Fine, Benjamin et al.**, **2005i:20002**
Storozhev, A. M. *see* **Ivanov, Sergei Vladimir**, **2005h:20062**
Stukow, Michał *see* **Gromadzki, Grzegorz**, **2005h:57026**
Szepietowski, Błażej Involutions in mapping class groups of non-orientable surfaces. (English summary) **2005f:57004**
Tamburini Bellani, Maria Chiara (*with* Zalesskii, Aleksandr E.) Classical groups in dimension 5 which are Hurwitz. (English summary) **2005j:20060**
Vsemirnov, Maxim Hurwitz groups of intermediate rank. (English summary) **2005j:20058**
Wensley, Christopher D. *see* **Heyworth, Anne**, **2005d:68073**
Wong, Yan-Loi *see* **Berrick, A. J.**, **2005i:20080**
Zalesskii, Aleksandr E. *see* **Tamburini Bellani, Maria Chiara**, **2005j:20060**
Zhu, De Gao (*with* Zuo, Guo Xin) The automorphism group and holomorph of quaternion group (in generalized sense). (Chinese. English and Chinese summaries) **2005k:20051**
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20F06 Cancellation theory; application of van Kampen diagrams [see also 57M05]

Bezverkhniĭ, N. V. R-cancellations in powers of words representing elements of infinite order in groups with the $C(3)\&T(6)$ conditions. (Russian. English and Russian summaries) **2005g:20049**
Edjvet, Martin (*with* Hammond, Paul) On a class of cyclically presented groups. (English summary) **2005c:20049**
Erschler-Dyubina, Anna Growth rates of small cancellation groups. (English summary) **2005f:20061**
Hammond, Paul *see* **Edjvet, Martin**, **2005c:20049**
Juhász, Arye On the solvability of equations over groups. (English summary) **2005m:20079**
Platonov, A. N. Isoperimetric functions and embeddings of groups. (Russian. English and Russian summaries) **2005k:20079**

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Bezverkhniĭ, V. N. (*with* Dobrynina, I. V.) On elements of finite order in Coxeter groups of large type. (Russian) **2005f:20075**
Bumagina, Inna (*with* Wise, Daniel T.) Every group is an outer automorphism group of a finitely generated group. (English summary) **2005m:20085**
Dobrynina, I. V. *see* **Bezverkhniĭ, V. N.**, **2005f:20075**
Ivanov, Sergei Vladimir (*with* Storozhev, A. M.) On varieties of groups in which all periodic groups are abelian. (English summary) **2005h:20062**
Juhász, Arye A spelling theorem for torsion-free one-relator presentations. (English summary) **2005m:20076**
Kulikova, O. V. On intersections of normal subgroups in free groups. (English summary) **2005f:20059**
Ol'shanskii, A. Yu. (*with* Sapir, Mark V.) The conjugacy problem and Higman embeddings. (English summary) **2005f:20062**
Sapir, Mark V. *see* **Ol'shanskii, A. Yu.**, **2005f:20062**
Storozhev, A. M. *see* **Ivanov, Sergei Vladimir**, **2005h:20062**
Wise, Daniel T. A flat plane that is not the limit of periodic flat planes. (English summary) **2005a:20064**
— Cubulating small cancellation groups. (English summary) **2005c:20069**
— *see also* **Bumagina, Inna**, **2005m:20085**

20F10 Word problems, other decision problems, connections with logic and automata [see also 03B25, 03D05, 03D40, 06B25, 08A50, 68Q70]

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— (*with* Grinblat, V. A.) Solution of the generalized conjugacy problem for words in painted subgroups of Artin groups of finite type. (Russian. English and Russian summaries) **2005k:20080**
Birget, Jean-Camille Functions on groups and computational complexity. (English summary) **2005h:20077**
Dobrynina, I. V. *see* **Bezverkhniĭ, V. N.**, **2005g:20050**
Druţu, Cornelia Filling in solvable groups and in lattices in semisimple groups. (English summary) **2005h:20078**
Elston, Gillian Z. (*with* Ostheimer, Gretchen) On groups whose word problem is solved by a counter automaton. (English summary) **2005g:20051**
Grinblat, V. A. *see* **Bezverkhniĭ, V. N.**, **2005k:20080**
Kapovich, Ilya (*with* Myasnikov, Alexei D.; Schupp, Paul; Shpilrain, Vladimir) Generic-case complexity, decision problems in group theory, and random walks. (English summary) **2005m:20080**
— (*with* Myasnikov, Alexei D.; Schupp, Paul; Shpilrain, Vladimir) Average-case complexity and decision problems in group theory. (English summary) **2005i:20053**
— (*with* Weidmann, Richard; Myasnikov, Alexei D.) Foldings, graphs of groups and the membership problem. (English summary) **2005m:20081**
— (*with* Schupp, Paul) Genericity, the Arzhantseva-Ol'shanskii method and the isomorphism problem for one-relator groups. (English summary) **2005h:20079**
Li, Qianlu Which words have an efficient result? (English summary) **2005g:20052**
Myasnikov, Alexei D. *see* **Kapovich, Ilya et al.**, **2005i:20053**; **2005m:20080** *and* **2005m:20081**
Ol'shanskii, A. Yu. (*with* Sapir, Mark V.) The conjugacy problem and Higman embeddings. (English summary) **2005f:20062**
Ostheimer, Gretchen *see* **Elston, Gillian Z.**, **2005g:20051**
Rocca, Charles F. *see* **Turner, Edward C.**, **2005i:20054**
Sapir, Mark V. *see* **Ol'shanskii, A. Yu.**, **2005f:20062**
Schupp, Paul *see* **Kapovich, Ilya et al.**, **2005h:20079**; **2005i:20053** *and* **2005m:20080**
Shpilrain, Vladimir *see* **Kapovich, Ilya et al.**, **2005i:20053** *and* **2005m:20080**
Turner, Edward C. (*with* Rocca, Charles F.) Boundary test elements. (English summary) **2005i:20054**
Weidmann, Richard *see* **Kapovich, Ilya et al.**, **2005m:20081**

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Adyan, S. I. (*with* Grunewald, Fritz J.; Mennicke, Jens L.) On prime quaternions, Hurwitz relations, and a new operation of group extension. (Russian. Russian summary) **2005e:20037**
Bartholdi, Laurent (*with* Grigorchuk, Rostislav I.; Šuniḱ, Zoran) Branch groups. **2005f:20046**
Bezverkhniĭ, V. N. (*with* Dobrynina, I. V.) Solution of the generalized conjugacy problem for words in Coxeter groups of large type. (Russian) **2005f:20076**

Birget, Jean-Camille (*with* Ol′shanskii, A. Yu.; Rips, Eliyahu; Sapir, Mark V.) Isoperimetric functions of groups and computational complexity of the word problem. (English summary) **2005b:20077b**

Bumagina, Inna The conjugacy problem for relatively hyperbolic groups. (English summary) **2005k:20103**

Çevik, A. Sinan One dimension higher of the word problem. (English summary) **2005h:20074**

Cooper, Joshua N. (*with* Graham, Ronald L.) Generalized de Bruijn cycles. (English summary) **2005b:05005**

Dobrynina, I. V. *see* **Bezverkhniĭ, V. N., 2005f:20076**

Elder, Murray Regular geodesic languages and the falsification by fellow traveler property. (English summary) **2005k:20101**

Engebretsen, Lars (*with* Holmerin, Jonas; Russell, Alexander) Inapproximability results for equations over finite groups. (English summary) (*see* **2005a:68008**)

Graham, Ronald L. *see* **Cooper, Joshua N., 2005b:05005**

Grigorchuk, Rostislav I. (*with* Sidki, S. N.) The group of automorphisms of a 3-generated 2-group of intermediate growth. (English summary) **2005k:20086**

— *see also* **Bartholdi, Laurent et al., 2005f:20046**

Grunewald, Fritz J. *see* **Adyan, S. I. et al., 2005e:20037**

Heyworth, Anne (*with* Wensley, Christopher D.) Logged rewriting and identities among relators. (English summary) **2005d:68073**

Holland, W. Charles (*with* Tsaban, Boaz) The conjugacy problem and related problems in lattice-ordered groups. (English summary) **2005m:06027**

Holmerin, Jonas *see* **Engebretsen, Lars et al.,** (**2005a:68008**)

Kapovich, Ilya (*with* Schupp, Paul) Bounded rank subgroups of Coxeter groups, Artin groups and one-relator groups with torsion. **2005a:20061**

Krajíček, Jan Dehn function and length of proofs. (English summary) **2005d:03104**

Lunau, Paul Automatic structures for fundamental groupoids of graphs of groups. (English summary) **2005k:20138**

Margolis, Stuart W. (*with* Meakin, John; Šunić, Zoran) Distortion functions and the membership problem for submonoids of groups and monoids. (English summary) **2005m:20141**

Meakin, John *see* **Margolis, Stuart W. et al., 2005m:20141**

Mennicke, Jens L. *see* **Adyan, S. I. et al., 2005e:20037**

Novikova, O. A. Solution of the generalized conjugacy problem for a free product with commuting subgroups. (Russian) **2005k:20060**

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Orevkov, Stepan Yu. Solution of the word problem in the singular braid group. (English summary) **2005c:20062**

Osin, D. V. Weak hyperbolicity and free constructions. (English summary) **2005h:20100**

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20F29 Representations of groups as automorphism groups of algebraic systems

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20F34 Fundamental groups and their automorphisms [see also 57M05, 57Sxx]

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Cabrera-Ibarra, Hugo On the classification of rational 3-tangles. (English summary) **2005a:57002**
Charney, Ruth (*with* Meier, John; Whittlesey, K.) Bestvina's normal form complex and the homology of Garside groups. (English summary) **2005e:20057**
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20F38 Other groups related to topology or analysis

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Gries, Daniel On the cohomology of the hyperelliptic mapping class group. (English summary) **2005f:57026**
Harvey, William J. (*with* Korkmaz, Mustafa) Homomorphisms from mapping class groups. (English summary) **2005i:57020**
Irmak, Elmas Superinjective simplicial maps of complexes of curves and injective homomorphisms of subgroups of mapping class groups. (English summary) **2005g:57035**
Korkmaz, Mustafa *see* **Harvey, William J., 2005i:57020**
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Navas, Andrés Groupes résolubles de difféomorphismes de l'intervalle, du cercle et de la droite. (English and French summaries) [Solvable groups of diffeomorphisms of the interval, the circle and the real line] **2005i:57044**
Odden, Chris The baseleaf preserving mapping class group of the universal hyperbolic solenoid. (English summary) **2005i:57018**
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Stukow, Michał Small torsion generating sets for hyperelliptic mapping class groups. (English summary) **2005h:57029**
— Conjugacy classes of finite subgroups of certain mapping class groups. (English summary) **2005b:57037**
Suzuki, Masaaki[2] On the kernel of the Magnus representation of the Torelli group. (English summary) **2005j:57024**
Szepietowski, Błażej Involutions in mapping class groups of non-orientable surfaces. (English summary) **2005f:57004**
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Viruel, Antonio *see* **Ruiz-Cirera, Albert, 2005f:20036** *and* **Rodríguez, José Luis et al., 2005i:55014**

20F40 Associated Lie structures

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Bartholdi, Laurent The 2-dimension series of the just-nonsolvable BSV group. (English summary) **2005f:20063**
Keller, Thomas Michael (*with* Ragan, Dustin; Tims, Geoffrey T.) On the Taketa bound for normally monomial p-groups of maximal class. (English summary) **2005f:20018**
Ragan, Dustin *see* **Keller, Thomas Michael et al., 2005f:20018**
Tims, Geoffrey T. *see* **Keller, Thomas Michael et al., 2005f:20018**

20F45 Engel conditions

Abdollahi, Alireza Groupes satisfaisant une condition d'Engel. (English and French summaries) [Groups satisfying an Engel condition] **2005k:20091**

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20F50 Periodic groups; locally finite groups

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De Falco, Maria (*with* de Giovanni, Francesco; Musella, Carmela) Groups in which every subgroup is permutable-by-finite. (English summary) **2005f:20069**
Dixon, Martyn R. (*with* Evans, Martin J.; Smith, Howard) A finiteness condition on subgroups of large derived length. (English summary) **2005f:20070**
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— *see also* **Belyaev, Vissarion V., 2005b:20069**
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Shumyatsky, Pavel *see* **Kuzucuoğlu, Mahmut, 2005a:20058**
Shunkov, V. P. *see* **Senashov, V. I., 2005a:20059**
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20F55 Reflection and Coxeter groups [see also 22E40, 51F15]

Athanasiadis, Christos A. On a refinement of the generalized Catalan numbers for Weyl groups. (English summary) **2005h:20091**
Bagno, Eli Kazhdan constants of some colored permutation groups. (English summary) **2005h:20092**
Bahls, Patrick Strongly rigid even Coxeter groups. (English summary) **2005i:20063**
Benoist, Yves (*with* de la Harpe, Pierre) Adhérence de Zariski des groupes de Coxeter. (English summary) [Zariski closure of Coxeter groups] **2005g:20059**
Bezverkhniĭ, V. N. (*with* Dobrynina, I. V.) On elements of finite order in Coxeter groups of large type. (Russian) **2005f:20075**
— (*with* Dobrynina, I. V.) Solution of the generalized conjugacy problem for words in Coxeter groups of large type. (Russian) **2005f:20076**
Billey, Sara C. (*with* Braden, Tom) Lower bounds for Kazhdan-Lusztig polynomials from patterns. (English summary) **2005a:20060**
Blessenohl, Dieter (*with* Hohlweg, Christophe; Schocker, Manfred) A symmetry of the descent algebra of a finite Coxeter group. (English summary) **2005m:20089**
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Borges-Trenard, Miguel A. (*with* Pérez-Rosés, Hebert) Complete presentations of Coxeter groups. (English summary) **2005c:20064**
Braden, Tom *see* **Billey, Sara C., 2005a:20060**
Dobrynina, I. V. *see* **Bezverkhniĭ, V. N., 2005f:20075** *and* **2005f:20076**
Everitt, Brent Coxeter groups and hyperbolic manifolds. (English summary) **2005m:20090**
Falbel, Elisha (*with* Paupert, Julien) Fundamental domains for finite subgroups in $U(2)$ and configurations of Lagrangians. (English summary) **2005i:20064**
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20Gxx Linear algebraic groups (classical groups) {For arithmetic theory, see 11E57, 11H56; for geometric theory, see 14Lxx, 22Exx; for other methods in representation theory, see 15A30, 22E45, 22E46, 22E47, 22E50, 22E55.}

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20G15 Linear algebraic groups over arbitrary fields

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20G25 Linear algebraic groups over local fields and their integers

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Broussous, Paul Simplicial complexes lying equivariantly over the affine building of $GL(N)$. (English summary) **2005m:20117**
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Popov, Sergeĭ Yur'evich The standard integral model of an algebraic torus. (Russian. English and Russian summaries) **2005m:20118**
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Broussous, Paul Acyclicity of Schneider and Stuhler's coefficient systems: another approach in the level 0 case. (English summary) **2005d:20051**
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20Hxx Other groups of matrices [see also 15A30]

20H05 Unimodular groups, congruence subgroups [see also 11F06, 19B37, 22E40, 51F20]

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Kim, Daeyong Discreteness criterions of isometric subgroups for quaternionic hyperbolic space. (English summary) **2005h:20113**
Kwak, Jin Ho (*with* Wang, Yan[3]) Real genus of minimal nonnilpotent groups. (English summary) **2005i:20079**
Liebeck, Martin W. (*with* Shalev, Aner) Fuchsian groups, coverings of Riemann surfaces, subgroup growth, random quotients and random walks. (English summary) **2005e:20076**
— (*with* Shalev, Aner) Fuchsian groups, finite simple groups and representation varieties. (English summary) **2005j:20065**
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Miyachi, Hideki Quasi-arcs in the limit set of a singly degenerate group with bounded geometry. (English summary) **2005a:20076**
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Stratmann, Bernd O. The exponent of convergence of Kleinian groups; on a theorem of Bishop and Jones. (English summary) **2005h:20114**
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— (*with* Wang, Xian Tao) Geometric characterizations for subgroups of PU(1, n; **C**). (English summary)
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Dai, Bin Lin Discreteness criteria for subgroups of the isometry group on a pinched Hadamard manifold. (Chinese. English and Chinese summaries)
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Dutenhefner, Francisco (*with* Gusevskiĭ, N. A.) Complex hyperbolic Kleinian groups with limit set a wild knot. (English summary) **2005a:30074**
Etayo Gordejuela, José Javier (*with* Martínez, Ernesto) Fuchsian groups generated by half-turns and geometrical characterization of hyperelliptic and symmetric Riemann surfaces. (English summary) **2005h:30079**
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Hwang, Jun-Muk On the volumes of complex hyperbolic manifolds with cusps. (English summary) **2005f:32042**
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Yang, Paul C. *see* **Chang, Sun-Yung Alice et al.**, 2005d:30064

20H15 Other geometric groups, including crystallographic groups [see also 51–XX, especially 51F15, and 82D25]

Bovdi, V. A. (*with* Gudivok, P. M.; Rudko, V. P.) Torsion-free crystallographic groups with indecomposable holonomy group. II. (English summary) **2005f:20089**
Dekimpe, Karel Groups in action: from Euclidean to polynomial crystallographic groups. **2005h:20115**
Fisher, Benji N. (*with* Rabson, David A.) Applications of group cohomology to the classification of quasicrystal symmetries. (English summary) **2005h:20116**
Garipov, R. M. Ornament groups on the Minkowski plane. (Russian. Russian summary) **2005b:20098**
— Classification up to isomorphism of crystallographic groups on a pseudo-Euclidean plane. II. Lattices $*$. Series VII, VIII. (Russian. Russian summary)
Gudivok, P. M. *see* **Bovdi, V. A. et al.**, 2005f:20089
Ma, Zhong Qi Irreducible bases in icosahedral group space and their application. (English summary) (*see* **2005b:00031**)
Rabson, David A. *see* **Fisher, Benji N.**, 2005h:20116
Radović, Ljiljana Derivation of multidimensional superperiodic symmetry groups by using Mackay groups. (English summary)
Rudko, V. P. *see* **Bovdi, V. A. et al.**, 2005f:20089
Strebel, Ralph Burckhardtsche Bestimmung der Raumgruppen. II. [Burckhardtian determination of the space groups. II] **2005d:20092**
Szczepański, Andrzej Holonomy groups of crystallographic groups with finite outer automorphism groups. (English summary) **2005a:20077**

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Ashrafi, Ali Reza *see* **Darafsheh, M. R. et al.**, 2005m:92069
Baake, Michael (*with* Grimm, Uwe) Bravais colourings of planar modules with N-fold symmetry. (English summary) **2005a:11099**
Bujalance, José A. (*with* Costa, Antonio F.; Porto Fereira da Silva, A. M.) On the topological types of symmetries of elliptic-hyperelliptic Riemann surfaces. (English summary) **2005f:30075**
Costa, Antonio F. *see* **Bujalance, José A. et al.**, 2005f:30075
Dabirian, M. (*with* Iranmanesh, Ali) The full non-rigid group theory for trimethylamine-BH_3 complex. (English summary) **2005m:92068**
Darafsheh, M. R. (*with* Farjami, Yaghoub; Ashrafi, Ali Reza) Computing the full non-rigid group of tetranitrocubane and octanitrocubane using wreath product. (English summary) **2005m:92069**
Ericksen, J. L. On the theory of rotation twins in crystal multilattices. (English summary) **2005e:74007**
Farjami, Yaghoub *see* **Darafsheh, M. R. et al.**, 2005m:92069
Grimm, Uwe *see* **Baake, Michael**, 2005a:11099
Ha, Ku Yong (*with* Lee, Jong Bum; Lee, Kyung Bai) Maximal holonomy of infra-nilmanifolds with 2-dimensional quaternionic Heisenberg geometry. (English summary) **2005k:53068**
Hyde, Stephen T. *see* **Robins, Vanessa et al.**, 2005k:52037
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Lee, Jong Bum *see* **Ha, Ku Yong et al.**, 2005k:53068
Lee, Kyung Bai *see* **Ha, Ku Yong et al.**, 2005k:53068
Majumdar, Subrata *see* **Akhter, Nasima**, 2005e:20080
Miatello, Roberto J. (*with* Rossetti, Juan Pablo) Length spectra and p-spectra of compact flat manifolds. (English summary) **2005a:58053**
Porto Fereira da Silva, A. M. *see* **Bujalance, José A. et al.**, 2005f:30075
Ramsden, S. J. *see* **Robins, Vanessa et al.**, 2005k:52037
Robins, Vanessa (*with* Ramsden, S. J.; Hyde, Stephen T.) Symmetry groups and reticulations of the hexagonal H surface. (English summary) **2005k:52037**
Ros, Antonio Isoperimetric inequalities in crystallography. **2005a:53012**
Rossetti, Juan Pablo *see* **Miatello, Roberto J.**, 2005a:58053

20H20 Other matrix groups over fields

Churkin, V. A. *see* **Ershov, Yu. L.**, 2005k:20123
Dzhusoeva, N. A. (*with* Koĭbaev, V. A.) Subgroups that contain a torus, which are associated with the quotient field of a unique factorization ring. (Russian. Russian summary) **2005b:20099**
Ershov, Yu. L. (*with* Churkin, V. A.) On a problem of Ulam. (Russian) **2005k:20123**
Koĭbaev, V. A. *see* **Dzhusoeva, N. A.**, 2005b:20099
Kurdachenko, Leonid A. (*with* Subbotin, Igor Ya.) On some infinite dimensional linear groups. (English summary) **2005c:20086**
Subbotin, Igor Ya. *see* **Kurdachenko, Leonid A.**, 2005c:20086

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Milenteva, Maria V. On the torsion-free ranks of finitely generated nilpotent groups and of their abelian subgroups. (English summary) **2005b:20062**
Oliĭnyk, A. S. (*with* Sushchanskiĭ, V. I.) Representations of free products by infinite unitriangular matrices over finite fields. (English summary) **2005i:20034**
Sushchanskiĭ, V. I. *see* **Oliĭnyk, A. S.**, 2005i:20034

20H25 Other matrix groups over rings

Dybkova, E. V. Borevich's theorem for the hyperbolic unitary group over a noncommutative skew field. (Russian. English and Russian summaries) **2005m:20126**
Kouyama, Naoto The cycloidal subgroups of index 9, 11 and 13 in $SL_2(\mathbb{Z})$. (English summary) **2005m:20127**
Petrov, Viktor Aleksandrovich Odd unitary groups. (Russian. English and Russian summaries) **2005b:20100**
Stepanov, Aleksei Vladimirovich Non-standard subgroups between $E_n(R)$ and $GL_n(A)$. (English summary) **2005d:20093**
Tan, Yu Ming Overgroups of certain subgroups of the linear group over a local ring. (Chinese. English and Chinese summaries) **2005h:20117**

Items with secondary classifications in 20H25

Bashkirov, Evgenii L. Some completely reducible linear groups over a quaternion division ring containing a root subgroup. (English summary) **2005b:20090**
Dzhusoeva, N. A. (*with* Koĭbaev, V. A.) Subgroups that contain a torus, which are associated with the quotient field of a unique factorization ring. (Russian. Russian summary) **2005b:20099**
Gamburd, Alex (*with* Shahshahani, Mehrdad) Uniform diameter bounds for some families of Cayley graphs. **2005m:05111**
Koĭbaev, V. A. *see* **Dzhusoeva, N. A.**, **2005b:20099**
Kuzucuoğlu, Feride (*with* Levchuk, Vladimir M.) Isomorphisms of certain locally nilpotent finitary groups and associated rings. (English summary) **2005b:16052**
— Isomorphisms of the unitriangular groups and associated Lie rings for the exceptional dimensions. (English summary)
Levchuk, Vladimir M. *see* **Kuzucuoğlu, Feride**, **2005b:16052**
Petrov, Viktor Aleksandrovich *see* **Vavilov, N. A.**, **2005d:20086**
Shahshahani, Mehrdad *see* **Gamburd, Alex**, **2005m:05111**
Vavilov, N. A. (*with* Petrov, Viktor Aleksandrovich) On overgroups of $Ep(2l, R)$. (Russian. Russian summary) **2005d:20086**

20H30 Other matrix groups over finite fields

Detinko, A. S. (*with* Flannery, D. L.) Classification of nilpotent primitive linear groups over finite fields. (English summary) **2005g:20083**
— (*with* Flannery, D. L.) Nilpotent primitive linear groups over finite fields. (English summary) **2005m:20128**
Flannery, D. L. Irreducible monomial linear groups of degree four over finite fields. (English summary) **2005d:20094**
— *see also* **Detinko, A. S.**, **2005g:20083** *and* **2005m:20128**

20H99 None of the above, but in this section

Wehrfritz, B. A. F. Finitary and Artinian-finitary groups over commutative rings. (English summary) **2005c:20087**
— Artinian-finitary groups over commutative rings and non-commutative rings. (English summary) **2005g:20084**
— Artinian-finitary groups are locally normal-finitary. (English summary) **2005m:20129**

20Jxx Connections with homological algebra and category theory

20J05 Homological methods in group theory

Berrick, A. J. (*with* Chatterji, I.; Mislin, Guido) From acyclic groups to the Bass conjecture for amenable groups. (English summary) **2005g:20085**
— (*with* Wong, Yan-Loi) Acyclic groups and wild arcs. (English summary) **2005i:20080**
Carlsson, Gunnar (*with* Goldfarb, Boris) On homological coherence of discrete groups. (English summary) **2005a:20078**
Chatterji, I. *see* **Berrick, A. J. et al.**, **2005g:20085**
Chiswell, I. M. Euler characteristics of discrete groups. **2005e:20078**
Davis, Michael Walter (*with* Okun, Boris L.) l^2-homology of right-angled Coxeter groups based on barycentric subdivisions. (English summary) **2005c:20088**
Emmanouil, Ioannis (*with* Passi, Inder Bir S.) A contribution to Bass' conjecture. (English summary) **2005b:20101**
Goldfarb, Boris *see* **Carlsson, Gunnar**, **2005a:20078**
Gruenberg, K. W. The higher cohomology groups and extension theory. **2005g:20086**
Harlander, Jens (*with* Kochloukova, Dessislava H.) The Σ^2-conjecture for metabelian groups: the general case. (English summary) **2005f:20090**
Kochloukova, Dessislava H. Groups with finitely generated integral homologies. (English summary) **2005e:20079**
— Invariants of discrete groups, Lie algebras and pro-p groups. **2005d:20095**
— *see also* **Harlander, Jens**, **2005f:20090**
Mikhailov, Roman (*with* Passi, Inder Bir S.) Augmentation powers and group homology. (English summary) **2005i:20081**
Mislin, Guido *see* **Berrick, A. J. et al.**, **2005g:20085**
Okun, Boris L. *see* **Davis, Michael Walter**, **2005c:20088**
Passi, Inder Bir S. *see* **Emmanouil, Ioannis**, **2005b:20101** *and* **Mikhailov, Roman**, **2005i:20081**
Wong, Yan-Loi *see* **Berrick, A. J.**, **2005i:20080**

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Arias, Daniel (*with* Ladra González, Manuel) Central extensions of precrossed modules. (English summary) **2005g:18019**
Behr, H. Higher finiteness properties of S-arithmetic groups in the function field case I. **2005f:20083**
Bogomolov, Fedor (*with* Maciel, Jorge; Petrov, Tihomir) Unramified Brauer groups of finite simple groups of Lie type A_l. (English summary) **2005k:14035**
Borge, Inger Christin A cohomological approach to the modular isomorphism problem (English summary) **2005c:20006**
Bux, Kai-Uwe Finiteness properties of soluble S-arithmetic groups: a survey. **2005d:20085**
— Finiteness properties of soluble arithmetic groups over global function fields. (English summary) **2005b:20088**
Carrasco, Pilar (*with* Garzón, A. R.) Obstruction theory for extensions of categorical groups. (English summary) **2005h:18023**
Engler, Antonio José (*with* Haran, D.; Kochloukova, Dessislava H.; Zalesskii, P. A.) Normal subgroups of profinite groups of finite cohomological dimension. (English summary) **2005i:20041**
Everaert, T. (*with* Van der Linden, T.) Baer invariants in semi-abelian categories. I. General theory. (English summary) **2005d:18013**
— (*with* Van der Linden, T.) Baer invariants in semi-abelian categories. II. Homology. (English summary) **2005e:18020**
Garzón, A. R. *see* **Carrasco, Pilar**, **2005h:18023**
Haran, D. *see* **Engler, Antonio José et al.**, **2005i:20041**
Horadam, K. J. Differentially 2-uniform cocycles—the binary case. (English summary) **2005a:94058**
Johnson, F. E. A. ★ Stable modules and the $D(2)$-problem. **2005b:57008**
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Ladra González, Manuel (*with* Vieites Rodríguez, A. M.) Internal q-homology of crossed modules. (English summary) **2005m:18018**
— *see also* **Arias, Daniel**, **2005g:18019**
Lee, Dae-Woong *see* **Lee, Hong-Jae**
Lee, Hong-Jae (*with* Lee, Dae-Woong) Pure extension product and derived limit. (English summary)
Linckelmann, Markus Fusion category algebras. (English summary) **2005a:20017**
Maciel, Jorge *see* **Bogomolov, Fedor et al.**, **2005k:14035**
Mutlu, Ali Freeness conditions of tensors and coproducts of groups. (English summary) **2005j:55006**
Okun, Boris L. Weighted L^2-cohomology of Coxeter groups based on barycentric subdivisons. (English summary) **2005g:20062**
Petrov, Tihomir *see* **Bogomolov, Fedor et al.**, **2005k:14035**
Van der Linden, T. *see* **Everaert, T.**, **2005d:18013** *and* **2005e:18020**
Vieites Rodríguez, A. M. *see* **Ladra González, Manuel**, **2005m:18018**
Zalesskii, P. A. On virtually projective groups. (English summary) **2005h:20064**
— *see also* **Engler, Antonio José et al.**, **2005i:20041**

20J06 Cohomology of groups

Akhter, Nasima (*with* Majumdar, Subrata) Determination of the homology and the cohomology of NEC groups with non-orientable orbit spaces and no reflexions. (English summary) **2005e:20080**
Benson, David John Dickson invariants, regularity and computation in group cohomology. (English summary) **2005c:20089**
— (*with* Krause, Henning; Schwede, Stefan) Realizability of modules over Tate cohomology. (English summary) **2005b:20102**
Cameron, Peter J. (*with* Müller, Thomas W.) A cohomological property of p-groups. (English summary) **2005a:20079**
De Concini, Corrado (*with* Procesi, C.; Rogora, E.; Zabrocki, Michael) On equations of degree $3 * 2^m$. **2005c:20090**
Erovenko, Igor V. On bounded cohomology of amalgamated products of groups. (English summary) **2005j:20067**
Fleischmann, Peter[1] (*with* Kemper, Gregor; Shank, R. James) On the depth of cohomology modules. (English summary) **2005c:20091**
Green, David J. ★ Gröbner bases and the computation of group cohomology. **2005d:20096**
— The essential ideal in group cohomology does not square to zero. (English summary) **2005g:20087**
Guichardet, Alain Sur une question (orale) de Michèle Vergne. (English and French summaries) [On a question posed (orally) by Michèle Vergne] **2005i:20082**
Huebschmann, Johannes On the cohomology of the holomorph of a finite cyclic group. (English summary) **2005g:20088**
Jo, Jang Hyun Multiple complexes and gaps in Farrell cohomology. (English summary) **2005h:20118**
Kemper, Gregor *see* **Fleischmann, Peter[1] et al.**, **2005c:20091**
Krause, Henning *see* **Benson, David John et al.**, **2005b:20102**
Lê Minh Hà (*with* Lesh, Kathryn) The cohomology of symmetric groups and the Quillen map at odd primes. (English summary) **2005b:20103**
Lesh, Kathryn *see* **Lê Minh Hà**, **2005b:20103**
Majumdar, Subrata *see* **Akhter, Nasima**, **2005e:20080**
Mazzoleni, Amedeo Partially defined cocycles and the Maslov index for a local ring. (English and French summaries) **2005h:20119**
McCammond, Jon (*with* Meier, John) The hypertree poset and the l^2-Betti numbers of the motion group of the trivial link. (English summary) **2005b:20104**
Meier, John *see* **McCammond, Jon**, **2005b:20104**
Müller, Thomas W. *see* **Cameron, Peter J.**, **2005a:20079**
Nucinkis, Brita E. A. On dimensions in Bredon homology. (English summary) **2005c:20092**
Okuyama, Tetsuro (*with* Sasaki, Hiroki) Homogeneous systems of parameters in cohomology algebras of finite groups. (English summary) **2005b:20105**
Phạm Anh Minh (*with* Symonds, Peter) Cohomology and finite subgroups of profinite groups. (English summary) **2005d:20097**
— Any nilpotence degree occurs in mod-p cohomology rings of p-groups. (English summary) **2005k:20124**
Procesi, C. *see* **De Concini, Corrado et al.**, **2005c:20090**
Rogora, E. *see* **De Concini, Corrado et al.**, **2005c:20090**
Sasaki, Hiroki *see* **Okuyama, Tetsuro**, **2005b:20105**
Schwede, Stefan *see* **Benson, David John et al.**, **2005b:20102**
Settepanella, Simona A stability-like theorem for cohomology of pure braid groups of the series A, B and D. (English summary) **2005d:20098**

Shank, R. James *see* **Fleischmann, Peter[1] et al., 2005c:20091**
Symonds, Peter Mackey functors and control of fusion. (English summary) **2005c:20093**
— *see also* **Phạm Anh Minh, 2005d:20097**
Võ Thanh Tùng Kernels of restriction maps in the mod-p cohomology of p-groups. (English summary) **2005f:20091**
Weigel, Thomas (*with* Zalesskii, P. A.) Profinite groups of finite cohomological dimension. (English and French summaries) **2005b:20106**
Zabrocki, Michael *see* **De Concini, Corrado et al., 2005c:20090**
Zalesskii, P. A. *see* **Weigel, Thomas, 2005b:20106**

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20J15 Category of groups

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20J99 None of the above, but in this section

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20Kxx Abelian groups

20K01 Finite abelian groups

Călugăreanu, Grigore The total number of subgroups of a finite abelian group. (English summary) **2005d:20099**
Corrádi, Keresztély (*with* Szabó, Sándor) Factoring a finite abelian group by prime complexes. (English summary) **2005m:20130**
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— (*with* Wang, Dian-jun) Additive Latin transversals and group rings. (English summary) **2005g:20089**
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Kavitha, Telikepalli Efficient algorithms for abelian group isomorphism and related problems. (English summary) **2005f:20092**
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Sands, A. D. Factoring finite abelian groups. (English summary) **2005d:20100**
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Pan, Jiang-min The order of the automorphism group of finite abelian group. (English and Chinese summaries)
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Peng, Chuang Davenport numbers & generating functions over finite abelian groups. (English summary) **2005i:11022**
Ruzsa, Imre Z. *see* **Gao, Wei Dong et al., 2005d:11029**
Sato, Hisayoshi (*with* Takagi, Tsuyoshi; Tezuka, Satoru; Takaragi, Kazuo) Generalized powering functions and their application to digital signatures. (English summary) **2005j:11089**
Takagi, Tsuyoshi *see* **Sato, Hisayoshi et al., 2005j:11089** *and* **Kurosawa, Kaoru, 2005k:94022**
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Tezuka, Satoru *see* **Sato, Hisayoshi et al., 2005j:11089**
Thangadurai, R. *see* **Gao, Wei Dong et al., 2005c:11027** *and* **2005d:11029**
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20K10 Torsion groups, primary groups and generalized primary groups

Breaz, Simion (*with* Călugăreanu, Grigore) Abelian groups whose subgroup lattice is the union of two intervals. (English summary) **2005m:20131**
Călugăreanu, Grigore *see* **Breaz, Simion, 2005m:20131**
Danchev, Peter Vassilev Primary abelian Σ-groups of countable length $\geq \omega.2$ are not necessarily summable. (English summary) **2005k:20126**
— Characteristic properties of large subgroups in primary abelian groups. (English summary) **2005g:20090**

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Abraham, Ross (*with* Schultz, Phill) Additive Galois theory of modules. (English summary) **2005a:16042**

Bak, Anthony (*with* Tang, Guo Ping[1]) Solution to the presentation problem for powers of the augmentation ideal of torsion free and torsion abelian groups. (English summary) **2005i:16052**

Calvert, Wesley The isomorphism problem for computable abelian p-groups of bounded length. (English summary) **2005j:03033**

Danchev, Peter Vassilev Ulm-Kaplansky invariants for $S(RG)/G_p$. (English summary) **2005c:20007**

— Basic subgroups in commutative modular group rings. (English summary) **2005g:16049**

Mollov, Todor Zh. (*with* Nachev, Nako A.) On commutative twisted group rings. (English summary) **2005m:16037**

Nachev, Nako A. *see* **Mollov, Todor Zh.**, **2005m:16037**

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Tang, Guo Ping[1] *see* **Bak, Anthony**, **2005i:16052**

20K15 Torsion-free groups, finite rank

Benabdallah, K. (*with* Mader, Adolf) Construction of regulating subgroups in almost completely decomposable groups. (English summary) **2005h:20122**

Blagoveshchenskaya, Ekaterina Classification of a class of almost completely decomposable groups. (English summary) **2005a:20080**

Chekhlov, A. R. *see* **Krylov, P. A.**, **2005a:20081**

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Kluempen, Friedrich L. (*with* Reboli, Denise M.) When are two subgroups of the rationals isomorphic? **2005h:20123**

Krylov, P. A. (*with* Chekhlov, A. R.) Torsion-free abelian groups with a large number of endomorphisms. (English summary) **2005a:20081**

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Turmanov, M. A. On pureness in abelian groups. (Russian. English and Russian summaries) **2005k:20128**

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Dugas, Manfred (*with* Rangaswamy, K. M.) Stacked bases theorem for Butler groups. (English summary) **2005a:20082**

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Grinshpon, S. Ya. Completely characteristic subgroups of completely decomposable abelian groups. (Russian) **2005k:20133**

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20K20 Torsion-free groups, infinite rank

Blass, Andreas (*with* Irwin, John M.) Is there a core class for almost free groups of size $\aleph_1$? (English summary) **2005k:20129**

Dugas, Manfred (*with* Rangaswamy, K. M.) Stacked bases theorem for Butler groups. (English summary) **2005a:20082**

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Göbel, Rüdiger (*with* Kaarli, K.; Márki, László; Wallutis, Simone L.) Endoprimal torsion-free separable abelian groups. (English summary) **2005b:20109**

Irwin, John M. *see* **Blass, Andreas**, **2005k:20129**

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Rangaswamy, K. M. *see* **Dugas, Manfred**, **2005a:20082**

Strüngmann, Lutz Minimal completely decomposable groups. (English summary) **2005k:20130**

Wallutis, Simone L. *see* **Göbel, Rüdiger et al.**, **2005b:20109**

Items with secondary classifications in 20K20

Bak, Anthony (*with* Tang, Guo Ping[1]) Solution to the presentation problem for powers of the augmentation ideal of torsion free and torsion abelian groups. (English summary) **2005i:16052**

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— (*with* Shelah, Saharon) Uniquely transitive torsion-free abelian groups. (English summary) **2005b:20110**

— (*with* Shelah, Saharon; Strüngmann, Lutz) Generalized E-rings. (English summary) **2005b:20111**

Goldsmith, Brendan (*with* Strüngmann, Lutz) Torsion-free weakly transitive abelian groups. (English summary) **2005m:20134**

Grinshpon, S. Ya. Completely characteristic subgroups of completely decomposable abelian groups. (Russian) **2005k:20133**

Krylov, P. A. (*with* Chekhlov, A. R.) Torsion-free abelian groups with a large number of endomorphisms. (English summary) **2005a:20081**

Lee, Sang Bum[1] *see* **Fuchs, László[1]**, **2005b:13023**

Shelah, Saharon *see* **Göbel, Rüdiger et al.**, **2005b:20110** *and* **2005b:20111**

Strüngmann, Lutz *see* **Göbel, Rüdiger et al.**, **2005b:20111** *and* **Goldsmith, Brendan**, **2005m:20134**

Tang, Guo Ping[1] *see* **Bak, Anthony**, **2005i:16052**

Wallutis, Simone L. *see* **Göbel, Rüdiger**, **2005a:20083**

20K21 Mixed groups

Breaz, Simion Quasi-decompositions for self-small abelian groups. (English summary) **2005k:20131**

— The quasi-Baer-splitting property for mixed abelian groups. (English summary) **2005c:20096**

Chekhlov, A. R. On mixed cs-groups. (English summary) **2005m:20132**

Kaarli, K. (*with* Márki, László) Endoprimal abelian groups of torsion-free rank 1. (English summary) **2005k:20132**

Márki, László *see* **Kaarli, K.**, **2005k:20132**

Okuyama, Takashi Splitting mixed groups of finite torsion-free rank. (English summary) **2005h:20124**

Items with secondary classifications in 20K21

Danchev, Peter Vassilev Primary abelian Σ-groups of countable length $\geq \omega.2$ are not necessarily summable. (English summary) **2005k:20126**

— Basic subgroups in commutative modular group rings. (English summary) **2005g:16049**

20K25 Direct sums, direct products, etc.

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Bourn, Dominique (*with* Gran, Marino) Normal sections and direct product decompositions. (English summary) **2005m:18011**

Breaz, Simion Quasi-decompositions for self-small abelian groups. (English summary) **2005k:20131**

Gran, Marino *see* **Bourn, Dominique**, **2005m:18011**

Lawson, Jimmie D. (*with* Lim, Yongdo) Means on dyadic symmetric sets and polar decompositions. (English summary) **2005j:51009**

Lim, Yongdo *see* **Lawson, Jimmie D.**, **2005j:51009**

Szabó, Sándor ★ Topics in factorization of abelian groups. **2005k:20125**

20K27 Subgroups

Grinshpon, S. Ya. Completely characteristic subgroups of completely decomposable abelian groups. (Russian) **2005k:20133**

Gröger, Detlef Construction of a basis for a cofinite subgroup in a free abelian group. (English summary) **2005h:20125**

Items with secondary classifications in 20K27

Breaz, Simion (*with* Călugăreanu, Grigore) Abelian groups whose subgroup lattice is the union of two intervals. (English summary) **2005m:20131**

Călugăreanu, Grigore The total number of subgroups of a finite abelian group. (English summary) **2005d:20099**

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Fuchs, László[1] Forcing linearity numbers for abelian groups. (English summary) **2005g:20093**

Okuyama, Takashi Splitting mixed groups of finite torsion-free rank. (English summary) **2005h:20124**

20K30 Automorphisms, homomorphisms, endomorphisms, etc.

Albu, Toma Divisible groups and an intriguing group isomorphism between the nonzero complex numbers and the unit circle. (English summary) **2005m:20133**

Blagoveshchenskaya, Ekaterina Automorphisms of endomorphism rings of block-rigid almost completely decomposable groups. (Russian. English and Russian summaries) **2005i:20084**

Bunina, E. I. (*with* Mikhalëv, A. V.) Elementary equivalence of endomorphism rings of abelian p-groups. (Russian. English and Russian summaries) **2005k:20134**

Dugas, Manfred (*with* Feigelstock, Shalom) AE-rings. (English summary) **2005g:20092**

Enochs, Edgar E. (*with* Estrada, Sergio) CoGalois groups as metric spaces. (English summary) **2005i:20085**

Estrada, Sergio *see* **Enochs, Edgar E.**, **2005i:20085**

Feigelstock, Shalom *see* **Dugas, Manfred**, **2005g:20092**

Fuchs, László[1] Forcing linearity numbers for abelian groups. (English summary) **2005g:20093**

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Goldsmith, Brendan (*with* Strüngmann, Lutz) Torsion-free weakly transitive abelian groups. (English summary) **2005m:20134**

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— Zero homomorphism groups of abelian groups. **2005k:20135**

Mikhalëv, A. V. *see* **Bunina, E. I.**, 2005k:20134
Mordovskoĭ, A. K. *see* **Grinshpon, S. Ya.**, 2005e:20082
Shelah, Saharon *see* **Göbel, Rüdiger et al.**, 2005b:20110 *and* 2005b:20111
Strüngmann, Lutz *see* **Göbel, Rüdiger et al.**, 2005b:20111 *and* **Goldsmith, Brendan**, 2005m:20134
Wallutis, Simone L. *see* **Göbel, Rüdiger**, 2005a:20083

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Abraham, Ross (*with* Schultz, Phill) Additive Galois theory of modules. (English summary) **2005a:16042**
Breaz, Simion The quasi-Baer-splitting property for mixed abelian groups. (English summary) **2005c:20096**
Dugas, Manfred AA-rings. (English summary) **2005k:20127**
— Localizations of torsion-free abelian groups. (English summary) **2005g:20091**
Gröger, Detlef On a special kind of homomorphism defined on the multiplicative group of an algebraic number field. (English summary) **2005b:12015**
Kaarli, K. (*with* Metsalu, K.) On endoprimality of torsion-free abelian groups of rank 3. (English summary) **2005e:20081**
— (*with* Márki, László) Endoprimal abelian groups of torsion-free rank 1. (English summary) **2005k:20132**
Krylov, P. A. (*with* Pakhomova, E. G.) When is the group $\mathrm{Hom}(A, B)$ an injective $E(B)$-module? (Russian. Russian summary) **2005a:16007**
Márki, László *see* **Kaarli, K.**, 2005k:20132
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20K40 Homological and categorical methods

Albrecht, Ulrich (*with* Wickless, William) Homological properties of quotient divisible abelian groups. (English summary) **2005h:20126**
Rodríguez, José Luis (*with* Scherer, Jérôme; Strüngmann, Lutz) On localization of torsion abelian groups. (English summary) **2005m:20135**
Scherer, Jérôme *see* **Rodríguez, José Luis et al.**, 2005m:20135
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Items with secondary classifications in 20K40

Breaz, Simion The quasi-Baer-splitting property for mixed abelian groups. (English summary) **2005c:20096**
Eklof, Paul C. Whitehead modules. **2005b:16015**
Shelah, Saharon On nice equivalence relations on $^\wedge 2$. (English summary) **2005d:03091**
Timoshenko, E. A. T-radicals in the category of modules. (English summary) **2005m:16002**

20K45 Topological methods [see also 22A05, 22B05]

Items with secondary classifications in 20K45

Sahleh, H. On the tensor square of a nilpotent topological group. (English summary) **2005m:22001**

20K99 None of the above, but in this section

Akinci, K. D. *see* **Alizade, Rafail et al.**, 2005i:20086
Alizade, Rafail (*with* Akinci, K. D.; Imam, A.) On the structure of neat-injective envelopes. (English summary) **2005i:20086**
Goldsmith, Brendan (*with* Óhógáin, S.; Wallutis, Simone L.) Quasi-minimal abelian groups. (English summary) **2005b:20112**
Grinshpon, I. E. *see* **Grinshpon, S. Ya. et al.**, 2005k:20136
Grinshpon, S. Ya. (*with* Grinshpon, I. E.; Sherstneva, A. I.) Almost isomorphic torsion-free abelian groups and similarity of homogeneously decomposable groups. (English summary) **2005k:20136**
Imam, A. *see* **Alizade, Rafail et al.**, 2005i:20086
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Okuyama, Takashi Purifiable subgroups. II. (English summary) **2005m:20136**
Sherstneva, A. I. *see* **Grinshpon, S. Ya. et al.**, 2005k:20136
Wallutis, Simone L. *see* **Goldsmith, Brendan et al.**, 2005b:20112

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Chowdhury, K. C. *see* **Das, Gireen Ch. et al.**, 2005h:16038
Das, Gireen Ch. (*with* Das, Gitali; Chowdhury, K. C.) Characterization of group structures of modules and rings with A.C.C. on annihilators. (English summary) **2005h:16038**
Das, Gitali *see* **Das, Gireen Ch. et al.**, 2005h:16038
Haddad, Labib (*with* Helou, C.) Bases in some additive groups and the Erdős-Turán conjecture. (English summary) **2005h:11023**
Hegarty, Peter V. Permutations avoiding arithmetic patterns. (English summary) **2005h:11025**
Helou, C. *see* **Haddad, Labib**, 2005h:11023
Károlyi, Gyula On restricted set addition in abelian groups. **2005f:11032**
Laczkovich, Miklós (*with* Székelyhidi, G.) Harmonic analysis on discrete abelian groups. (English summary) **2005i:43015**
Pott, Alexander Nonlinear functions in abelian groups and relative difference sets. (English summary) **2005b:05036**
Schmid, Wolfgang A. Arithmetic of block monoids. (English summary) **2005j:20078**
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20Mxx Semigroups

20M05 Free semigroups, generators and relations, word problems

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20M10 General structure theory

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20M12 Ideal theory

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20M14 Commutative semigroups

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— Commutative semigroups with finite congruence lattices. (English summary) **2005h:20140**
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— *see also* **Geroldinger, Alfred**, 2005m:20150
Herzinger, Kurt (*with* Sanford, Ryan) Minimal generating sets for relative ideals in numerical semigroups of multiplicity eight. (English summary) **2005k:20153**
Jiménez Madrid, J. A. *see* **Rosales, José C. et al.**, 2005j:20077
Kanemitsu, Mitsuo Integral semigroup extensions and conductor theorems. (English summary) **2005b:20118**
Kisielewicz, Andrzej P. Complexity of semigroup identity checking. (English summary) **2005e:20089**
Matthews, Gretchen L. On numerical semigroups generated by generalized arithmetic sequences. (English summary) **2005g:20095**
Morales, Marcel (*with* Thoma, Apostolos) Complete intersection lattice ideals. (English summary) **2005j:20076**
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Rosales, José C. (*with* García-Sánchez, Pedro A.; García-García, J. I.; Jiménez Madrid, J. A.) Fundamental gaps in numerical semigroups with respect to their multiplicity. (English summary) **2005j:20077**
— (*with* García-Sánchez, Pedro A.) Numerical semigroups with embedding dimension three. (English summary) **2005i:20093**
— (*with* Gutiérrez-Gutiérrez, J.) Finitely generated commutative regular semigroups. (English summary) **2005g:20096**
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— *see also* **García-Sánchez, Pedro A.**, 2005h:20139
Sanford, Ryan *see* **Herzinger, Kurt**, 2005k:20153
Schmid, Wolfgang A. Arithmetic of block monoids. (English summary) **2005j:20078**
Thoma, Apostolos *see* **Morales, Marcel**, 2005j:20076
Wiegand, Roger *see* **Facchini, Alberto**, 2005d:20106
Wu, Tong Suo *see* **Zuo, Miao**, 2005h:20141
Zafrullah, Muhammad *see* **Anderson, D. D.**, 2005d:20105
Zuo, Miao (*with* Wu, Tong Suo) A new graph structure of commutative semigroups. (English summary) **2005h:20141**

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Araújo, Isabel M. (*with* Kelarev, Andrei V.; Solomon, Andrew Israel) An algorithm for commutative semigroup algebras which are principal ideal rings. (English summary) **2005k:16057**
Brookfield, Gary (*with* Rush, David E.) When graded domains are Schreier or pre-Schreier. (English summary) **2005h:13002**
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Çevik, A. Sinan Efficiency for self semi-direct products of the free abelian monoid on two generators. (English summary) **2005j:20069**
Chang, Gyu Whan *see* **Anderson, David F., 2005g:13021**
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Hassler, Wolfgang *see* **Halter-Koch, Franz et al., 2005b:13043**
Kainrath, Florian *see* **Halter-Koch, Franz et al., 2005b:13043**
Kelarev, Andrei V. *see* **Araújo, Isabel M. et al., 2005k:16057**
Krause, Ulrich Semigroup rings that are inside factorial and their Cale representation. **2005b:13039**
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Matsuda, Ryûki Torsion-free abelian semigroup rings. XI. **2005a:13005**
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Oliveira, Gilvan Numerical semigroups whose last gap is large. (English summary) **2005g:14064**
Reis, Raquel *see* **Fuchs, László[1], 2005a:06018**
Rush, David E. *see* **Brookfield, Gary, 2005h:13002**
Solomon, Andrew Israel *see* **Araújo, Isabel M. et al., 2005k:16057**
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20M15 Mappings of semigroups

Chalopin, Jérémie (*with* Leung, Hing) On factorization forests of finite height. (English summary) **2005a:20086**
Guo, Xiaojiang (*with* Shum, Kar Ping) On translational hulls of type-A semigroups. (English summary) **2005b:20120**
Leung, Hing *see* **Chalopin, Jérémie, 2005a:20086**
Shum, Kar Ping *see* **Guo, Xiaojiang, 2005b:20120**

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Araújo, João (*with* Konieczny, Janusz) Dense relations are determined by their endomorphism monoids. (English summary) **2005m:20154**
Konieczny, Janusz *see* **Araújo, João, 2005m:20154**
Tucci, Ralph P. Inverse semigroups all of whose proper homomorphic images are groups. (English summary) **2005e:20094**

20M17 Regular semigroups

Almeida Santos, M. H. *see* **Blyth, T. S., 2005e:20092**
Billhardt, Bernd Expansions of completely simple semigroups. (English summary) **2005e:20091**
Blyth, T. S. (*with* Almeida Santos, M. H.) The smallest regular semigroups with all four skew pairs of idempotents. (English summary) **2005e:20092**
— (*with* Pinto, G. A.) Eventually regular Dubreil-Jacotin semigroups. (English summary) **2005h:20142**
Bogdanović, Stojan (*with* Ćirić, Miroslav; Mitrović, Melanija S.) Semigroups satisfying certain regularity conditions. (English summary) **2005h:20143**
— (*with* Ćirić, Miroslav; Stanimirović, Predrag S.; Petković, Tatjana) Linear equations and regularity conditions on semigroups. (English summary) **2005c:20099**
Chattopadhyay, Soma Right orthodox Γ-semigroup. (English summary) **2005k:20154**
Ćirić, Miroslav *see* **Bogdanović, Stojan et al., 2005c:20099** *and* **2005h:20143**
Dolinka, Igor (*with* Marković, Petar) The Berman conjecture is true for nilpotent extensions of regular semigroups. **2005e:20093**
Ebrahimi-Vishki, Hamid Reza *see* **Fattahi, Abdolmajid**
Fattahi, Abdolmajid (*with* Ebrahimi-Vishki, Hamid Reza) A note on reductive semigroups. (English summary)
Gao, Zeng Hui A note on strong $\mathscr{P}$-congruence lattices of $\mathscr{P}$-regular semigroups. (Chinese. English and Chinese summaries) **2005g:20097**
Ghosh, Shamik *see* **Sen, Mridul Kanti et al., 2005g:20098**
Giraldes, E. (*with* Marques-Smith, M. Paula O.; Mitsch, Heinz) F-regular semigroups. (English summary) **2005a:20087**
Hayes, Anthony The structure of $\mathscr{L}$-unipotent semigroups with zero. (English summary) **2005i:20094**
Johnston-Thom, K. G. On lattices of regular subsemigroups. (English summary) **2005f:20099**
Kan, Hai Bin *see* **Li, Yong Hua[2] et al., 2005c:20101**
Lawson, Mark V. One-dimensional tiling semigroups. (English summary) **2005a:20088**
Lee, Sang Keun On intra-regular semigroups. (English summary)
Li, Yong Hua[2] On regular semigroups with a quasi-ideal regular $*$-transversal. (English and Chinese summaries) **2005c:20100**
— Locally regular $*$-semigroups and regular semigroups with a quasi-ideal regular $*$-transversal. (English summary) **2005i:20095**
— (*with* Kan, Hai Bin; Yu, Bing Jun) On weak regular $*$-semigroups. (English summary) **2005c:20101**
— Split $\mathscr{P}$-regular semigroups. (English and Chinese summaries)
Liu, Guo Xin[2] (*with* Song, Guang-tian) Some partial orders on completely regular semigroups. (English and Chinese summaries)
Luo, Yanfeng (*with* Yang, Dong) Weak inverses on eventually regular semigroups. (English summary) **2005f:20100**
Marković, Petar *see* **Dolinka, Igor, 2005e:20093**
Marques-Smith, M. Paula O. *see* **Giraldes, E. et al., 2005a:20087**
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Pal, Sumana *see* **Sen, Mridul Kanti et al., 2005g:20098**
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Sen, Mridul Kanti (*with* Ghosh, Shamik; Pal, Sumana) On a class of subdirect products of left and right Clifford semigroups. (English summary) **2005g:20098**
Song, Guang-tian *see* **Liu, Guo Xin[2]**
Stanimirović, Predrag S. *see* **Bogdanović, Stojan et al., 2005c:20099**
Tian, Zhen Ji Eventually regular semigroups whose lattice of subsemigroups is 0-distributive or 0-modular. (English summary) **2005k:20155**
Wu, Jing-peng *see* **Zhang, Rong-hua, 2005a:20089**
Yang, Dong *see* **Luo, Yanfeng, 2005f:20100**
Yu, Bing Jun *see* **Li, Yong Hua[2] et al., 2005c:20101**
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Arworn, Sr. (*with* Knauer, Ulrich; Na Chiangmai, N.) Characterization of digraphs of right (left) zero unions of groups. (English summary)
Auinger, K. (*with* Szendrei, Mária B.) Comparing the regular and the restricted regular semidirect products. (English summary) **2005c:20097**
Chen, Jian Fei *see* **Luo, Yanfeng et al., 2005j:20073**
Chvalina, Jan (*with* Moučka, Jiří) Hypergroups determined by orderings with regular endomorphism monoids. (English summary) **2005h:20160**
Ebrahimi-Vishki, Hamid Reza *see* **Fattahi, Abdolmajid, (2005g:00015)**
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Gutiérrez-Gutiérrez, J. *see* **Rosales, José C., 2005g:20096**
Hoffmann, Michael (*with* Kuske, Dietrich; Otto, Friedrich; Thomas, Richard M.) Some relatives of automatic and hyperbolic groups. (English summary) **2005e:20083**
Jitjankarn, Pichat (*with* Udomkavanich, Patanee) Regularity of some regressive transformation semigroups. (English summary) **2005j:20080**
Knauer, Ulrich *see* **Arworn, Sr. et al.**
Kong, Xiang Zhi (*with* Yuan, Zhi Ling) Quasi strong semilattice decomposition of regular cryptogroups. (Chinese. English and Chinese summaries) **2005m:20146**
Krishnachandran, V. N. (*with* Nambooripad, K. S. S.) Geometry of the biordered set of idempotent endomorphisms. (English summary) **2005b:20123**
Kuske, Dietrich *see* **Hoffmann, Michael et al., 2005e:20083**
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Moučka, Jiří *see* **Chvalina, Jan, 2005h:20160**
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Shum, Kar Ping *see* **Ren, Xue Ming, 2005k:20149**
Sornsanam, Sasitorn (*with* Sullivan, R. P.) Regularity conditions on order-preserving transformation semigroups. (English summary) **2005g:20105**
Sullivan, R. P. *see* **Sornsanam, Sasitorn, 2005g:20105**
Szendrei, Mária B. On locally inverse semigroups having weakly E-unitary covers. (English summary) **2005e:20088**
— *see also* **Auinger, K., 2005c:20097**
Thomas, Richard M. *see* **Hoffmann, Michael et al., 2005e:20083**
Udomkavanich, Patanee *see* **Jitjankarn, Pichat, 2005j:20080**
Yuan, Zhi Ling *see* **Kong, Xiang Zhi, 2005m:20146**
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20M18 Inverse semigroups

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— Bifree locally inverse semigroups as expansions. (English summary) **2005k:20156**
Chen, Li Min[2] Structure of 0-categorical and E^*-unitary inverse semigroups. (Chinese. English and Chinese summaries)
— (*with* Jiang, Zhonghao) A structure theorem for E^*-unitary categorical inverse semigroups. (English summary) **2005h:20145**
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Cherubini, Alessandra (*with* Meakin, John; Piochi, Brunetto) Amalgams of finite inverse semigroups. (English summary) **2005j:20079**
Choi, Keunbae (*with* Lim, Yongdo) An embedding of Birget-Rhodes expansion of groups into a semidirect product. (English summary) **2005g:20099**
— Green's $\mathscr{D}$-relation of Birget-Rhodes expansions and partial group algebras. (English summary) **2005g:20100**

Guo, Yu Qi *see* Sen, Mridul Kanti et al., 2005b:20122
Huang, Xue Jun[2] The minimum inverse semigroup congruence on an orthodox semigroup with inverse transversals. (Chinese. English and Chinese summaries) **2005m:20151**
Jiang, Zhonghao On E^*-unitary categorical inverse semigroups. (English summary) **2005g:20101**
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Kellendonk, Johannes (*with* Lawson, Mark V.) Universal groups for point-sets and tilings. (English summary) **2005d:20108**
Lawson, Mark V. *see* Kellendonk, Johannes, 2005d:20108
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Lin, Xi Qin *see* Chen, Zhao Ying
Meakin, John *see* Cherubini, Alessandra et al., 2005j:20079
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Poliakova, Olga (*with* Schein, Boris M.) A new construction for free inverse semigroups. (English summary) **2005m:20152**
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Schwab, Emil Daniel Möbius categories as reduced standard division categories of combinatorial inverse monoids. (English summary) **2005b:20121a**
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Tian, Zhen Ji (*with* Yan, Ke-Ming) Strongly eventually inverse semigroups whose lattice of full eventually inverse subsemigroups form a chain. (English summary) **2005h:20146**
Tucci, Ralph P. Inverse semigroups all of whose proper homomorphic images are groups. (English summary) **2005e:20094**
Yamamura, Akihiro A class of inverse monoids acting on ordered forests. (English summary) **2005h:20147**
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Banakh, Taras O. (*with* Gutik, Oleg V.) On the continuity of inversion in countably compact inverse topological semigroups. (English summary) **2005c:22005**
Chen, Jian Fei *see* Luo, Yanfeng et al., 2005j:20073
Easdown, David (*with* Lavers, T. G.) The inverse braid monoid. (English summary) **2005d:20062**
Ganyushkin, A. G. (*with* Mazorchuk, Volodymyr) Combinatorics of nilpotents in symmetric inverse semigroups. (English summary) **2005c:05012**
Guo, Xiaojiang (*with* Shum, Kar Ping) On translational hulls of type-A semigroups. (English summary) **2005b:20120**
Gutik, Oleg V. *see* Banakh, Taras O., 2005c:22005
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Lawson, Mark V. Ordered groupoids and left cancellative categories. (English summary) **2005b:18005**
Li, Yong Hua[2] On regular semigroups with a quasi-ideal regular $*$-transversal. (English and Chinese summaries) **2005c:20100**
Luo, Yanfeng (*with* Zhao, Hua; Chen, Jian Fei) Good congruences on abundant semigroups with multiplicative adequate transversals. (English summary) **2005j:20073**
Maity, Sunil K. *see* Sen, Mridul Kanti et al., 2005k:16099
Mazorchuk, Volodymyr *see* Ganyushkin, A. G., 2005c:05012
Oliĭnyk, A. S. (*with* Sushchanskiĭ, V. I.) Conjugacy in inverse semigroups of partial automaton permutations over a finite alphabet. (Russian. English summary) **2005k:68137**
Sen, Mridul Kanti (*with* Maity, Sunil K.; Shum, Kar Ping) Semisimple Clifford semirings. (English summary) **2005k:16099**
Shum, Kar Ping *see* Guo, Xiaojiang, 2005b:20120 *and* Sen, Mridul Kanti et al., 2005k:16099
Sushchanskiĭ, V. I. *see* Oliĭnyk, A. S., 2005k:68137
Tsyaputa, G. Y. Green's relations on the deformed transformation semigroups. (English summary) **2005b:20128**
Yang, Hao Bo Two notes of maximal inverse subsemigroups of full transformation semigroups. (English and Chinese summaries) **2005h:20150**
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Zhu, Yong Wen Some fundamental properties of topological inverse semigroups. (Chinese. English and Chinese summaries)

20M19 Orthodox semigroups

Guo, Yu Qi *see* He, Yong[2] et al., 2005m:20153
He, Yong[2] (*with* Guo, Yu Qi; Shum, Kar Ping) Standard representations of orthodox semigroups. (English summary) **2005m:20153**
Li, Yong Hua[2] Congruences on an orthodox semigroup. (English summary) **2005e:20095**
Shum, Kar Ping *see* He, Yong[2] et al., 2005m:20153
Song, Guang-tian *see* Zhu, Feng-lin, 2005g:20102 *and* 2005i:20097
Zhu, Feng-lin (*with* Song, Guang-tian) Left seminormal orthodox semigroups with inverse transversals. (English and Chinese summaries) **2005g:20102**
— (*with* Song, Guang-tian) Left semiregular orthodox semigroups and regular orthodox semigroups with inverse transversals. (English summary) **2005i:20097**

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Kaďourek, Jiří Uncountably many existence varieties of orthodox locally idempotent semigroups. **2005e:20085**
Wang, Zhengpan (*with* Zhang, Rong-hua; Xie, Mu) Regular orthocryptou semigroups. (English summary) **2005f:20097**
Xie, Mu *see* Wang, Zhengpan et al., 2005f:20097
Zhang, Rong-hua *see* Wang, Zhengpan et al., 2005f:20097

20M20 Semigroups of transformations, etc. [see also 47D03, 47H20, 54H15]

André, Jorge M. Regularity on near permutation semigroups. (English summary) **2005h:20148**
— Inverse near permutation semigroups. (English summary) **2005f:20102**
Araújo, João (*with* Konieczny, Janusz) Dense relations are determined by their endomorphism monoids. (English summary) **2005m:20154**
Ayık, Gonca (*with* Ayık, Hayrullah; Ünlü, Yusuf; Howie, John M.) The structure of elements in finite full transformation semigroups. (English summary) **2005k:20157**
— (*with* Ayık, Hayrullah; Howie, John M.) On factorisations and generators in transformation semigroups. (English summary) **2005k:20158**
Ayık, Hayrullah *see* Ayık, Gonca et al., 2005k:20157 *and* 2005k:20158
Barnes, George (*with* Levi, Inessa) On idempotent ranks of semigroups of partial transformations. (English summary) **2005k:20159**
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Cao, You An *see* Li, Zhuo, 2005k:20160
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Choffrut, Christian (*with* Karhumäki, Juhani) Some decision problems on integer matrices. (English summary) **2005m:20155**
Delić, Dejan (*with* Dolinka, Igor) The endomorphism monoid of the random graph has uncountably many ideals. (English summary) **2005a:20090**
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— *see also* Fernandes Delgado, Manuel Augusto, 2005d:20109
Fernandes Delgado, Manuel Augusto (*with* Fernandes, Vítor H.) Abelian kernels of monoids of order-preserving maps and of some of its extensions. (English summary) **2005d:20109**
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Howie, John M. *see* Ayık, Gonca et al., 2005k:20157 *and* 2005k:20158
Jesus, Manuel M. *see* Fernandes, Vítor H. et al., 2005i:20098
Jin, Yong *see* Pei, Hui Sheng et al., 2005f:20103
Jitjankarn, Pichat (*with* Udomkavanich, Patanee) Regularity of some regressive transformation semigroups. (English summary) **2005j:20080**
Karhumäki, Juhani *see* Choffrut, Christian, 2005m:20155
Kemprasit, Yupaporn *see* Rungrattrakoon, Pennapa *and* Chaopraknoi, Sureeporn
Kolmykov, V. A. On the commutativity relation in a symmetric semigroup. (Russian. Russian summary) **2005i:20099**
Konieczny, Janusz Semigroups of transformations commuting with injective nilpotents. (English summary) **2005g:20104**
— *see also* Araújo, João, 2005m:20154
Krishnachandran, V. N. (*with* Nambooripad, K. S. S.) Geometry of the biordered set of idempotent endomorphisms. (English summary) **2005b:20123**
Laradji, Abdallah (*with* Umar, Abdullahi) On the number of nilpotents in the partial symmetric semigroup. (English summary) **2005i:20100**
— (*with* Umar, Abdullahi) Combinatorial results for semigroups of order-preserving partial transformations. (English summary) **2005b:20124**
— (*with* Umar, Abdullahi) On certain finite semigroups of order-decreasing transformations. I. (English summary) **2005e:20097**
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Volkov, Mikhail V. *see* **Margolis, Stuart W. et al.**, **2005f:68119**

20M25 Semigroup rings, multiplicative semigroups of rings [see also 16S36, 16Y60]

Cedó, Ferran (*with* Okniński, Jan) Plactic algebras. (English summary) **2005a:20091**
Kozhukhov, I. B. Radical semigroup rings and the Thue-Morse semigroup. (Russian. Russian summary) **2005c:20104**
Okniński, Jan *see* **Cedó, Ferran**, **2005a:20091**
Wendt, Gerhard On the multiplicative semi-group of near-rings. (English summary) **2005h:20151**

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Bruns, Winfried (*with* Gubeladze, Joseph) Semigroup algebras and discrete geometry. (English summary) **2005e:14078**
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20M30 Representation of semigroups; actions of semigroups on sets

Bulman-Fleming, Sydney *see* **Shi, Xiao Ping et al.**, **2005m:20157**
Chen, Yuqun (*with* Zhang, Xia²) Generalized Goldie dimension for an S-act. (English summary) **2005k:20163**
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Knauer, Ulrich (*with* Oltmanns, Helga) On Rees weakly projective right polygons. (Russian. English and Russian summaries) **2005k:20165**
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Nakamoto, Kazunori (*with* Torii, Takeshi²) Topology of the moduli of representations with Borel mold. (English summary) **2005b:20129**
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Qiao, HuSheng (*with* Li, Lian) Some conditions on monoids for which condition (P) acts are strongly flat. (English summary) **2005k:20166**
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Torii, Takeshi² *see* **Nakamoto, Kazunori**, **2005b:20129**
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Wei, Jia Qun On a question of Kilp and Knauer. (English summary) **2005g:20106**
— Characterizations of relations between some left S-acts. (Chinese. English and Chinese summaries) **2005m:20158**
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Gallagher, Peter (*with* Ruškuc, Nik) Finitary power semigroups of infinite groups are not finitely generated. (English summary) **2005k:20140**
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Jiang, Zhonghao On E^*-unitary categorical inverse semigroups. (English summary) **2005g:20101**
Kilp, Mati *see* **Oltmanns, Helga et al.**, (**2005j:54001**)
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20M35 Semigroups in automata theory, linguistics, etc. [see also 03D05, 68Q70, 68T50]

Dimovski, Donco *see* **Manevska, Violeta**, **2005m:20159**
Kunc, Michal Equational description of pseudovarieties of homomorphisms. (English summary) **2005c:20106**
Manevska, Violeta (*with* Dimovski, Donco) (3, 2)-semigroups generated by (3, 2)-automata. (English summary) **2005m:20159**

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Buszkowski, Wojciech Syntactic calculus and pregroups. (English summary) **2005a:03043**
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Holzer, Markus (*with* König, Barbara) On deterministic finite automata and syntactic monoid size. (English summary) **2005k:68117**
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20M50 Connections of semigroups with homological algebra and category theory

Chen, Qian Hua *see* **Fan, Xing Kui**, **2005j:20083**
Fan, Xing Kui (*with* Chen, Qian Hua) Strong P-congruences on E-inversive p-semigroups. (Chinese. English and Chinese summaries) **2005j:20083**
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Kilp, Mati (*with* Knauer, Ulrich) On weakly projective amalgams. (English summary) **2005k:20168**
Knauer, Ulrich *see* **Kilp, Mati**, **2005k:20168**
Kostin, A. A. (*with* Novikov, B. V.) Semigroup cohomology as a derived functor. (English summary) **2005i:20102**
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Otto, Friedrich *see* **Pride, Stephen J.**, **2005b:68163** *and* **2005m:20142**
Pasku, Elton *see* **McGlashan, Stuart et al.**, **2005k:68109**
Petrić, Zoran *see* **Došen, Kosta**, **2005b:57013**
Pride, Stephen J. (*with* Otto, Friedrich) For rewriting systems the topological finiteness conditions FDT and FHT are not equivalent. (English summary) **2005b:68163**
— (*with* Otto, Friedrich) On higher order homological finiteness of rewriting systems. (English summary) **2005m:20142**
— *see also* **McGlashan, Stuart et al.**, **2005k:68109**
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20M99 None of the above, but in this section

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Derech, V. D. On permutation congruences on antigroups of finite rank. (Ukrainian. English and Ukrainian summaries)
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Silva, Pedro V. (*with* Steinberg, Benjamin) A geometric characterization of automatic monoids. (English summary) **2005f:20106**
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Stanley, Richard P. *see* **Arias-Castro, Ery et al., 2005f:60101**

Stavrides, Marilena On the random generation of finite simple classical groups. (English summary) **2005h:20067**

(Tsilevich, N. V.) *see* **Kerov, S. V., 2005b:20021**

(Vershik, A. M.) *see* **Kerov, S. V., 2005b:20021**

22–XX Topological groups, Lie groups {For transformation groups, see 54H15, 57Sxx, 58–XX. For abstract harmonic analysis, see 43–XX.}

22–01 Instructional exposition (textbooks, tutorial papers, etc.)

Bump, Daniel ★ Lie groups. **2005f:22001**
Chebotarevskiĭ, B. D. *see* **Duzhin, S. V., 2005d:22001**
Duzhin, S. V. (*with* Chebotarevskiĭ, B. D.) ★ Transformation groups for beginners. **2005d:22001**

Items with secondary classifications in 22–01

Bourbaki, Nicolas ★ Lie groups and Lie algebras. Chapters 7–9. **2005h:17001**
Godement, Roger ★ Analyse mathématique. IV. (French) [Mathematical analysis. IV] **2005k:11002**
(Pressley, Andrew) *see* **Bourbaki, Nicolas, 2005h:17001**

22–02 Research exposition (monographs, survey articles)

Kirillov, Aleksandr Aleksandrovich ★ Lectures on the orbit method. **2005c:22001**

22–03 Historical (must also be assigned at least one classification number from Section 01)

Borel, Armand On the work of M. S. Raghunathan. **2005k:22001**
Prasad, Gopal On some work of Raghunathan. (English summary) **2005k:22002**
(Raghunathan, M. S.) *see* **Borel, Armand, 2005k:22001**

22–06 Proceedings, conferences, collections, etc.

(Anker, Jean-Philippe) *see* **Lie theory, 2005i:22001** *and* **2005k:22003**
van Dijk, G. (*with* Molchanov, V. F.) Preface [Representations of Lie groups, harmonic analysis on homogeneous spaces and quantization].
Molchanov, V. F. *see* **van Dijk, G.**
(Ørsted, Bent) *see* **Lie theory, 2005i:22001** *and* **2005k:22003**
(Tan, Eng-Chye) *see* **Representations of real and *p*-adic groups, 2005e:22001**
(Zhu, Chen-Bo) *see* **Representations of real and *p*-adic groups, 2005e:22001**

Items listed otherwise than by author

Lie theory ★ Lie theory. **2005i:22001**
— ★ Lie theory. **2005k:22003**
Progress in Mathematics ★ Lie theory. **2005i:22001**
— ★ Lie theory. **2005k:22003**
Representations of real and *p*-adic groups ★ Representations of real and *p*-adic groups. **2005e:22001**

Items with secondary classifications in 22–06

(Bakić, Damir) *see* **Functional analysis VIII, 2005j:00016**
(Brin, Michael) *see* **Modern dynamical systems and applications, 2005f:37001**
(Dani, S. G.) *see* **Algebraic groups and arithmetic, 2005d:11002**
(Hasselblatt, Boris) *see* **Modern dynamical systems and applications, 2005f:37001**
(Hida, Haruzo) *see* **Contributions to automorphic forms, geometry, and number theory, 2005a:11002**
(Katok, Anatole) *see* **Modern dynamical systems and applications, 2005f:37001**
(Lau, Anthony To-Ming) *see* **Banach algebras and their applications, 2005f:00009**
(Muić, Goran) *see* **Functional analysis VIII, 2005j:00016**
(Pandžić, Pavle) *see* **Functional analysis VIII, 2005j:00016**
(Pesin, Yakov B.) *see* **Modern dynamical systems and applications, 2005f:37001**
(Peskir, Goran) *see* **Functional analysis VIII, 2005j:00016**
(Prasad, Gopal) *see* **Algebraic groups and arithmetic, 2005d:11002**
(Ramakrishnan, Dinakar) *see* **Contributions to automorphic forms, geometry, and number theory, 2005a:11002**
(Runde, Volker) *see* **Banach algebras and their applications, 2005f:00009**
(Shahidi, Freydoon) *see* **Contributions to automorphic forms, geometry, and number theory, 2005a:11002**
(Shalika, Joseph A.) *see* **Contributions to automorphic forms, geometry, and number theory, 2005a:11002**

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Algebraic groups and arithmetic ★ Algebraic groups and arithmetic. **2005d:11002**
Baltimore, MD ★ Contributions to automorphic forms, geometry, and number theory. **2005a:11002**
Banach algebras and their applications ★ Banach algebras and their applications. **2005f:00009**
Contemporary Mathematics ★ Banach algebras and their applications. **2005f:00009**
Contributions to automorphic forms, geometry, and number theory ★ Contributions to automorphic forms, geometry, and number theory. **2005a:11002**
Dubrovnik ★ Functional analysis VIII. **2005j:00016**
Edmonton, AB ★ Banach algebras and their applications. **2005f:00009**
Functional analysis VIII ★ Functional analysis VIII. **2005j:00016**
Modern dynamical systems and applications ★ Modern dynamical systems and applications. **2005f:37001**
Mumbai ★ Algebraic groups and arithmetic. **2005d:11002**

22Axx Topological and differentiable algebraic systems {For topological rings and fields, see 12Jxx, 13Jxx, 16W80.}

22A05 Structure of general topological groups

Bouziad, A. (*with* Troallic, J. P.) Functional equicontinuity and uniformities in topological groups. (English summary) **2005i:22002**
Bruguera, M. Montserrat (*with* Martín-Peinador, Elena; Tarieladze, V. I.) Eberlein-Šmulyan theorem for abelian topological groups. (English summary) **2005i:22003**
Cabello Sánchez, Félix Quasi-homomorphisms. (English summary) **2005b:22001**
Comfort, W. W. (*with* Raczkowski, S. U.; Trigos-Arrieta, F. Javier) The dual group of a dense subgroup. (English summary) **2005h:22001**
Ferri, Stefano (*with* Strauss, Dona Papert) A note on the $\mathcal{WAP}$-compactification and the $\mathcal{LUC}$-compactification of a topological group. (English summary) **2005b:22002**
Hernández, Salvador (*with* Trigos-Arrieta, F. Javier) Group duality with the topology of precompact convergence. (English summary) **2005k:22004**
Laczkovich, Miklós Exponential polynomials. (Hungarian. English and Hungarian summaries) **2005f:22002**
Lina About compact and sequentially compact coincide in topological groups with the axiom (A_1). (English summary)
Lukács, Gábor On sequentially h-complete groups. (English summary) **2005b:22003**
— Hereditarily h-complete groups. (English summary) **2005h:22002**
Martín-Peinador, Elena (*with* Tarieladze, V. I.) A property of Dunford-Pettis type in topological groups. (English summary) **2005c:22002**
— *see also* **Bruguera, M. Montserrat et al., 2005i:22003**
Megrelishvili, Michael Generalized Heisenberg groups and Shtern's question. (English summary) **2005j:22001**
Mucuk, Osman (*with* Özdemir, Mehmet) Universal covers of topological modules and a monodromy principle. (English summary) **2005c:22003**
Özdemir, Mehmet *see* **Mucuk, Osman, 2005c:22003**
Pyrch, N. M. Orthogonal retractions and M-equivalence. (English and Russian summaries) **2005b:22004**
Raczkowski, S. U. *see* **Comfort, W. W. et al., 2005h:22001**
Sahleh, H. A covering of topological groups and the Schur multiplier. (English summary) **2005h:22003**
— On the tensor square of a nilpotent topological group. (English summary) **2005m:22001**
— On the Schur multiplier of a topological group. (English summary)
Short, Jon W. (*with* Stevens, T. Christine) Weakened Lie groups and their locally isometric completions. (English summary) **2005b:22005**
Sipachëva, O. V. The topology of a free topological group. (Russian. English and Russian summaries) **2005c:22004**
Stevens, T. Christine *see* **Short, Jon W., 2005b:22005**
Strauss, Dona Papert *see* **Ferri, Stefano, 2005b:22002**
Tarieladze, V. I. *see* **Martín-Peinador, Elena, 2005c:22002** *and* **Bruguera, M. Montserrat et al., 2005i:22003**
Tkachenko, Mikhail G. $\mathbb{R}$-factorizable groups and subgroups of Lindelöf P-groups. (English summary) **2005d:22002**
Trigos-Arrieta, F. Javier *see* **Comfort, W. W. et al., 2005h:22001** *and* **Hernández, Salvador, 2005k:22004**
Troallic, J. P. *see* **Bouziad, A., 2005i:22002**

Items with secondary classifications in 22A05

Arkhangel'skiĭ, A. V. Perfect mappings in topological groups, cross-complementary subsets and quotients. (English summary) **2005f:54066**
Artico, G. (*with* Malykhin, V. I.; Marconi, Umberto) Five different proofs of extraresolvability of countable totally bounded groups. (English summary) **2005g:54065**
Banakh, Taras O. (*with* Zdomskyĭ, Lubomyr) The topological structure of (homogeneous) spaces and groups with countable cs*-character. (English summary) **2005f:54009**
Baron, Karol Powers of topological groups characters and a theorem of van der Corput. (English summary) **2005h:39044**
Bella, Angelo (*with* Simon, Petr) Spaces which are generated by discrete sets. (English summary) **2005a:54048**
Gumerov, R. N. On the existence of means on solenoids. (English summary) **2005k:54053**
Hernández García, Constancio (*with* Tkachenko, Mikhail G.) Subgroups and products of $\mathbb{R}$-factorizable P-groups. (English summary) **2005c:54029**
Khelif, Anatole Uncountable homomorphic images of Polish groups are not $\aleph_1$-free groups. (English summary) **2005k:20059**
Lyudkovskiĭ, S. V. Generalized geometric loop groups of complex manifolds, Gaussian quasi-invariant measures on them and their representations. **2005j:58008**
Malnič, Aleksander (*with* Marušič, Dragan; Möller, Rögnvaldur G.; Seifter, Norbert; Trofimov, Vladimir I.; Zgrablič, Boris) Highly arc transitive digraphs: reachability, topological groups. (English summary) **2005i:05081**
Malykhin, V. I. *see* **Artico, G. et al., 2005g:54065**
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Robbie, Desmond (*with* Tkachenko, Mikhail G.) Hereditarily s-groups. (English summary) **2005b:54064**
Seifter, Norbert *see* **Malnič, Aleksander et al., 2005i:05081**
Simon, Petr *see* **Bella, Angelo, 2005a:54048**
Tkachenko, Mikhail G. *see* **Robbie, Desmond, 2005b:54064** *and* **Hernández García, Constancio, 2005c:54029**
Todorčević, Stevo (*with* Uzcátegui A., Carlos E.) Analytic k-spaces. (English summary) **2005i:54037**
Tomita, A. H. Countable compactness and finite powers of topological groups without convergent sequences. (English summary) **2005i:54046**
Trofimov, Vladimir I. *see* **Malnič, Aleksander et al., 2005i:05081**

Uzcátegui A., Carlos E. *see* **Todorčević, Stevo, 2005i:54037**
Yamada, Kohzo The natural mappings i_n and k-subspaces of free topological groups on metrizable spaces. (English summary) **2005m:54062**
Zdomskyĭ, Lubomyr *see* **Banakh, Taras O., 2005f:54009**
Zgrablič, Boris *see* **Malnič, Aleksander et al., 2005i:05081**

22A10 Analysis on general topological groups

Items with secondary classifications in 22A10

Cao, Jiling (*with* Moors, Warren B.) Separate and joint continuity of homomorphisms defined on topological groups. (English summary) **2005e:54038**
Cillero Sanz, Elena Characters of the additive group of the rationals. (Spanish. Spanish summary) **2005e:20008**
Mirzapour, Farzollah (*with* Morassaei, Ali) Quasi-convex functions in topological groups. (English summary)
Moors, Warren B. *see* **Cao, Jiling, 2005e:54038**
Morassaei, Ali *see* **Mirzapour, Farzollah**

22A15 Structure of topological semigroups

Banakh, Taras O. (*with* Gutik, Oleg V.) On the continuity of inversion in countably compact inverse topological semigroups. (English summary) **2005c:22005**
Breckner, Brigitte E. (*with* Ruppert, Wolfgang A. F.) On compactification lattices of subsemigroups of $SL(2, \mathbb{R})$. (English summary) **2005b:22006**
Budzban, Gregory (*with* Mukherjea, Arunava) Subsemigroups of completely simple semigroups and weak convergence of convolution products of probability measures. (English summary) **2005c:22006**
Guo, Xiaojiang The ideal extension and congruence extension properties for compact semigroups. (English summary) **2005b:22007**
Gutik, Oleg V. *see* **Banakh, Taras O., 2005c:22005**
Medghalchi, Alireza (*with* Rahimi, H. R.) The ideal structure on the topological tensor product of topological semigroups. (English summary) **2005e:22002**
— (*with* Rahimi, H. R.) The ideal structure on the topological tensor product of topological semigroups. (English summary) **2005i:22004**
Mukherjea, Arunava *see* **Budzban, Gregory, 2005c:22006**
Rahimi, H. R. *see* **Medghalchi, Alireza, 2005e:22002** *and* **2005i:22004**
do Rocio, Osvaldo Germano (*with* San Martin, Luiz A. B.) Connected components of open semigroups in semi-simple Lie groups. (English summary) **2005c:22007**
Ruppert, Wolfgang A. F. *see* **Breckner, Brigitte E., 2005b:22006**
San Martin, Luiz A. B. *see* **do Rocio, Osvaldo Germano, 2005c:22007**
Zhu, Yong Wen Some fundamental properties of topological inverse semigroups. (Chinese. English and Chinese summaries)

Items with secondary classifications in 22A15

Banakh, Taras O. (*with* Ravsky, Sasha) On subgroups of saturated or totally bounded paratopological groups. (English summary) **2005g:54066**
Hindman, Neil (*with* Kopperman, Ralph) Order compactifications of discrete semigroups. (English summary) **2005d:54025**
— (*with* McCutcheon, Randall) Partition theorems for left and right variable words. (English summary) **2005e:05148**
Kopperman, Ralph *see* **Hindman, Neil, 2005d:54025**
McCutcheon, Randall *see* **Hindman, Neil, 2005e:05148**
Ravsky, Sasha *see* **Banakh, Taras O., 2005g:54066**
do Rocio, Osvaldo Germano (*with* Santana, Alexandre J.) Free groups of semigroups in semi-simple Lie groups. (English summary) **2005h:22022**
Santana, Alexandre J. *see* **do Rocio, Osvaldo Germano, 2005h:22022**

22A20 Analysis on topological semigroups

Ebrahimi-Vishki, Hamid Reza *see* **Fattahi, Abdolmajid, (2005g:00015)**
Fattahi, Abdolmajid (*with* Ebrahimi-Vishki, Hamid Reza) Regular reductive semigroup compactification. (English summary) (*see* **2005g:00015**)

Items with secondary classifications in 22A20

Amini, Massoud Module amenability for semigroup algebras. (English summary) **2005d:43002**
Dedania, H. V. On standard ideals in weighted convolution algebras on subsemigroups of $\mathbb{R}^+$. (English summary) **2005m:46085**
Pourabbas, A. (*with* Riazi, A.) Approximate identities in spaces of all absolutely continuous measures on locally compact semigroups. (English summary) **2005m:28010**
Riazi, A. *see* **Pourabbas, A., 2005m:28010**

22A22 Topological groupoids (including differentiable and Lie groupoids) [see also 58H05]

Abdul Kadir, Mohamad A. *see* **Manna, Mohammad**
Buneci, Mădălina Roxana Topologies on the graph of the equivalence relation associated to a groupoid. (English summary) **2005c:22008**
— Necessary and sufficient conditions for the continuity of a pre-Haar system at a unit with singleton orbit. (English summary) **2005m:22002**
Degeratu, Marian (*with* Ivan, Gheorghe) Inductive limits of Lie groupoids. (English summary) **2005c:22009**
Enock, Michel Quantum groupoids and pseudo-multiplicative unitaries. (English summary) **2005b:22008**
İçen, İlhan (*with* Mucuk, Osman) Some results for the local subgroupoids. (English summary) **2005d:22003**
Ivan, Gheorghe Extensions of Lie groupoids. (English summary) **2005k:22005**
— *see also* **Degeratu, Marian, 2005c:22009**
Ivan, Mihai Bundles of Lie groupoids. (English summary) **2005k:22006**
Li, Xiu Chang (*with* Zhong, De Shou) Properties of Lie groupoids and symplectic groupoids. (Chinese. English and Chinese summaries)
Manna, Mohammad (*with* Abdul Kadir, Mohamad A.) The fibres of semi-topological groupoid. (English summary)
Mucuk, Osman *see* **İçen, İlhan, 2005d:22003**
Nikolopoulos, Apostolos On the triviality of Lie groupoids. (English summary) **2005i:22005**
Tu, Jean-Louis Non-Hausdorff groupoids, proper actions and K-theory. (English summary) **2005h:22004**
Zhong, De Shou *see* **Li, Xiu Chang**

Items with secondary classifications in 22A22

Alinore, Mohamad *see* **Manna, Mohammad**
Androulidakis, Iakovos Classification of extensions of principal bundles and transitive Lie groupoids with prescribed kernel and cokernel. (English summary) **2005m:58038**
Buneci, Mădălina Roxana The equality of the reduced and the full C^*-algebras and the amenability of a topological groupoid. (English summary) **2005m:46089**
Cattaneo, Alberto S. On the integration of Poisson manifolds, Lie algebroids, and coisotropic submanifolds. (English summary) **2005e:53129**
— (*with* Felder, Giovanni) Coisotropic submanifolds in Poisson geometry and branes in the Poisson sigma model. (English summary) **2005m:81285**
Felder, Giovanni *see* **Cattaneo, Alberto S., 2005m:81285**
Iglesias Ponte, David Multiplicative multivector fields on Lie groupoids. (English summary) **2005j:53089**
Ivan, Gheorghe The induced principal bundle with structure Lie groupoid. (English summary) **2005b:55031**
Lupercio, Ernesto (*with* Uribe, Bernardo) Deligne cohomology for orbifolds, discrete torsion and B-fields. (English summary) **2005d:55024**
Manna, Mohammad (*with* Alinore, Mohamad) Weak separation axioms on topological groupoid. (English summary)
Moerdijk, I. Lie groupoids, gerbes, and non-abelian cohomology. (English summary) **2005b:58024**
Paterson, Alan L. T. The equivariant analytic index for proper groupoid actions. (English summary) **2005m:58045**
Saunders, D. J. Prolongations of Lie groupoids and Lie algebroids. (English summary) **2005g:20109**
Uribe, Bernardo *see* **Lupercio, Ernesto, 2005d:55024**
Vidican, Roxana C^*-subalgebras of the C^*-algebra associated with an r-discrete groupoid. (English and Romanian summaries) **2005a:46113**
Zhong, De Shou Dirac structures and Poisson reductions on Poisson groupoids. (English summary) **2005c:53103**

22A25 Representations of general topological groups and semigroups

Items with secondary classifications in 22A25

Breckner, Brigitte E. (*with* Ruppert, Wolfgang A. F.) On compactification lattices of subsemigroups of $SL(2, \mathbb{R})$. (English summary) **2005b:22006**
Megrelishvili, Michael Fragmentability and representations of flows. (English summary) **2005h:37042**
Ruppert, Wolfgang A. F. *see* **Breckner, Brigitte E., 2005b:22006**

22A30 Other topological algebraic systems and their representations

Molaei, M. R. (*with* Tahmoresi, A.) Connected topological generalized groups. (English summary)
Romaguera, Salvador (*with* Sanchis, Manuel; Tkachenko, Mikhail G.) Free paratopological groups. (English summary) **2005f:22003**
Sanchis, Manuel *see* **Romaguera, Salvador et al., 2005f:22003**
Tahmoresi, A. *see* **Molaei, M. R.**
Tkachenko, Mikhail G. *see* **Romaguera, Salvador et al., 2005f:22003**
Zelenyuk, E. G. On group operations on homogeneous spaces. (English summary) **2005a:22001**

Items with secondary classifications in 22A30

Saramago, M. J. Optimal natural dualities: the role of endomorphisms. (English summary) **2005f:08006**

22A99 None of the above, but in this section

Jones, Julie C. Homomorphisms and protopological groups. (English summary) **2005c:22010**

Items with secondary classifications in 22A99

Lowen, Robert (*with* Verwulgen, S.) Approach vector spaces. (English summary) **2005m:46004**
Verwulgen, S. *see* **Lowen, Robert, 2005m:46004**

22Bxx Locally compact abelian groups (LCA groups)

22B05 General properties and structure of LCA groups

Dikranjan, Dikran (*with* Di Santo, Raffaele) Answer to Armacost's quest on topologically torsion elements of the circle group. (English summary) **2005c:22011**
Di Santo, Raffaele *see* **Dikranjan, Dikran, 2005c:22011**
Hofmann, Karl H. (*with* Morris, Sidney A.; Poguntke, Detlev) The exponential function of locally connected compact abelian groups. (English summary) **2005b:22009**

Morris, Sidney A. *see* **Hofmann, Karl H. et al., 2005b:22009**
Poguntke, Detlev *see* **Hofmann, Karl H. et al., 2005b:22009**

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Doerr, Benjamin (*with* Srivastav, Anand; Wehr, Petra) Discrepancy of Cartesian products of arithmetic progressions. (English summary) **2005c:11018**
Hofmann, Karl H. (*with* Morris, Sidney A.) The structure of abelian pro-Lie groups. (English summary) **2005i:22007**
Morris, Sidney A. *see* **Hofmann, Karl H., 2005i:22007**
Przebinda, Tomasz Three uncertainty principles for an abelian locally compact group. **2005g:43007**
Srivastav, Anand *see* **Doerr, Benjamin et al., 2005c:11018**
Wehr, Petra *see* **Doerr, Benjamin et al., 2005c:11018**

22B99 None of the above, but in this section

Items with secondary classifications in 22B99

Bezuglyi, S. (*with* Dajani, Karma; Dooley, Anthony H.; Hamachi, Toshihiro) Isomorphic actions of group extensions on a measure space. (English summary) **2005d:37006**
Castro Pereira, I. (*with* Tomita, A. H.) A countably compact free abelian group whose size has countable cofinality. (English summary) **2005g:54068**
Dajani, Karma *see* **Bezuglyi, S. et al., 2005d:37006**
Dooley, Anthony H. *see* **Bezuglyi, S. et al., 2005d:37006**
Graev, M. I. The Radon transform over locally compact abelian groups. (Russian) **2005m:44002**
Hamachi, Toshihiro *see* **Bezuglyi, S. et al., 2005d:37006**
Qiu, Chong Yi Invariant means and topological invariant means. (Chinese. English and Chinese summaries) **2005j:43001**
Tomita, A. H. *see* **Castro Pereira, I., 2005g:54068**

22C05 Compact groups

Bendikov, A. D. (*with* Saloff-Coste, Laurent) Spaces of smooth functions and distributions on infinite-dimensional compact groups. (English summary) **2005h:22005**
Hämmerli, J.-F. (*with* Matthey, Michel; Suter, Ueli) Automorphisms of normalizers of maximal tori and first cohomology of Weyl groups. (English summary) **2005f:22004**
Matthey, Michel *see* **Hämmerli, J.-F. et al., 2005f:22004**
Morris, Sidney A. The topology of compact groups. (English summary) **2005f:22005**
Müger, Michael On the center of a compact group. **2005m:22003**
Neuhauser, Markus Kazhdan constants for conjugacy classes of compact groups. (English summary) **2005a:22002**
Saloff-Coste, Laurent *see* **Bendikov, A. D., 2005h:22005**
Špakula, Ján (*with* Zlatoš, Pavol) Almost homomorphisms of compact groups. (English summary) **2005j:22002**
Suter, Ueli *see* **Hämmerli, J.-F. et al., 2005f:22004**
Zlatoš, Pavol *see* **Špakula, Ján, 2005j:22002**

Items with secondary classifications in 22C05

Aarts, Jan M. (*with* Fokkink, Robbert J.) Mappings on the dyadic solenoid. (English summary) **2005f:54061**
Bauer, Tilman p-compact groups as framed manifolds. (English summary) **2005d:55022**
Bernik, Janez (*with* Radjavi, Heydar) How small can nonzero commutators be? (English summary)
Bump, Daniel ★ Lie groups. **2005f:22001**
Cen, Yan Ming (*with* Cen, Yi Gang) A necessary and sufficient condition for determining a Hilbert basis of $P_n(\Gamma)$. (Chinese. English and Chinese summaries) **2005g:22026**
Cen, Yi Gang *see* **Cen, Yan Ming, 2005g:22026**
Conrey, J. B. (*with* Forrester, Peter J.; Snaith, N. C.) Averages of ratios of characteristic polynomials for the compact classical groups. **2005m:11167**
Dikranjan, Dikran (*with* Marconi, Umberto; Moresco, Roberto) Groups with a small set of generators. (English summary) **2005f:20056**
El Chami, Fida Spectra of the Laplace operator on Grassmann manifolds. (English summary) **2005c:58054**
Fokkink, Robbert J. *see* **Aarts, Jan M., 2005f:54061**
Forrester, Peter J. *see* **Conrey, J. B. et al., 2005m:11167**
Goetz, Arek (*with* Poggiaspalla, Guillaume) Rotations by $\pi/7$. (English summary) **2005h:37092**
Grabovsky, Yury (*with* Hijab, Omar) A generalization of the Chandler Davis convexity theorem. (English summary) **2005g:74033**
Guillemin, Victor W. (*with* Rassart, Etienne) Signature quantization and representations of compact Lie groups. (English summary) **2005k:53175**
Hijab, Omar *see* **Grabovsky, Yury, 2005g:74033**
Kriegl, Andreas (*with* Losik, Mark; Michor, Peter W.; Rainer, Armin) Lifting smooth curves over invariants for representations of compact Lie groups. II. (English summary) **2005k:22031**
Losik, Mark *see* **Kriegl, Andreas et al., 2005k:22031**
Lukács, Gábor On sequentially h-complete groups. (English summary) **2005b:22003**
Marconi, Umberto *see* **Dikranjan, Dikran et al., 2005f:20056**
Michor, Peter W. *see* **Kriegl, Andreas et al., 2005k:22031**
Moresco, Roberto *see* **Dikranjan, Dikran et al., 2005f:20056**
Poggiaspalla, Guillaume *see* **Goetz, Arek, 2005h:37092**
Radjavi, Heydar *see* **Bernik, Janez**
Rainer, Armin *see* **Kriegl, Andreas et al., 2005k:22031**
Rassart, Etienne *see* **Guillemin, Victor W., 2005k:53175**
Ross, Kenneth Allen (*with* Shao, Qi-Man) On Helgason's number and Khintchine's inequality. (English summary) **2005j:60040**
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22Dxx Locally compact groups and their algebras

22D05 General properties and structure of locally compact groups

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Cherix, Pierre-Alain (*with* Martin, Florian; Valette, Alain) Spaces with measured walls, the Haagerup property and property (T). (English summary) **2005i:22006**
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Stokke, Ross Quasi-central bounded approximate identities in group algebras of locally compact groups. (English summary) **2005g:43005**
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Bédos, Erik (*with* Conti, Roberto[2]) On infinite tensor products of projective unitary representations. (English summary) **2005f:22006**
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Hart, Joan E. (*with* Kunen, Kenneth) Bohr compactifications of non-abelian groups. (English summary) **2005c:22012**
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22D12 Other representations of locally compact groups

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22D15 Group algebras of locally compact groups

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22D20 Representations of group algebras

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da Providência, João, Jr. *see* **Yamamura, Masatoshi et al., 2005m:81127**
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22D25 C^*-algebras and W^*-algebras in relation to group representations [see also 46Lxx]

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Leung, Chi-Wai (*with* Ng, Chi-Keung) Some permanence properties of C^*-unique groups. (English summary) **2005c:22014**
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22D30 Induced representations

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22D35 Duality theorems

Hernández, Salvador Group homomorphisms induced by isometries of spaces of almost periodic functions. (English summary) **2005f:22008**

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22D40 Ergodic theory on groups [see also 28Dxx]

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Einsiedler, Manfred (*with* Lind, Douglas) Algebraic $\mathbb{Z}^d$-actions on entropy rank one. (English summary) **2005a:37009**
Jaworski, Wojciech[1] On the asymptotic behaviour of iterates of averages of unitary representations. (English summary) **2005j:60015**
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Morris, Dave Witte (*with* Zimmer, Robert J.) Ergodic actions of semisimple Lie groups on compact principal bundles. (English summary) **2005e:22016**
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22D45 Automorphism groups of locally compact groups

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Conti, Roberto[2] (*with* D'Antoni, Claudio; Geatti, Laura) Group automorphisms preserving equivalence classes of unitary representations. (English summary) **2005b:22011**
D'Antoni, Claudio *see* **Conti, Roberto[2] et al., 2005b:22011**
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22D99 None of the above, but in this section

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Kalyuzhnyi, A. A. *see* **Chapovskiĭ, Yu. A. et al.**
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Items with secondary classifications in 22D99

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22Exx Lie groups {For the topology of Lie groups and homogeneous spaces, see 57Sxx, 57Txx; for analysis thereon, see 43A80, 43A85, 43A90.}

22E05 Local Lie groups [see also 34–XX, 35–XX, 58H05]

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Kassem, Magda M. *see* **Abd-El-Malek, Mina B. et al., 2005a:76149**
Mekky, Mohammad L. *see* **Abd-El-Malek, Mina B. et al., 2005a:76149**

22E10 General properties and structure of complex Lie groups [see also 32M05]

Konstantinov, Alexey L. (*with* Rozanov, Pavel K.) On the exponential map of the Lie groups locally isomorphic to $\mathrm{SU}(p,q)$. (English summary) **2005k:22011**
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Wallach, Nolan R. (*with* Zhu, Chen-Bo) Transfer of unitary representations. **2005k:22021**
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22E15 General properties and structure of real Lie groups

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Danielli, D. (*with* Garofalo, N.; Nhieu, Duy-Minh; Tournier, F.) The theorem of Busemann-Feller-Alexandrov in Carnot groups. **2005j:22005**
Dwyer, William G. (*with* Wilkerson, Clarence W., Jr.) Cartan involutions and normalizers of maximal tori. (English summary) **2005d:22004**
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Hazod, W. On normalizers and centralizers of compact Lie groups. Applications to structural probability theory. (English summary) **2005e:22003**
Hofmann, Karl H. (*with* Morris, Sidney A.) The structure of abelian pro-Lie groups. (English summary) **2005i:22007**
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Nhieu, Duy-Minh *see* **Danielli, D. et al., 2005j:22005**
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Wilkerson, Clarence W., Jr. *see* **Dwyer, William G., 2005d:22004**
Wüstner, Michael The classification of all simple Lie groups with surjective exponential map. (English summary) **2005m:22005**

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Bonfiglioli, Andrea Homogeneous Carnot groups related to sets of vector fields. (English and Italian summaries) **2005b:35034**
Bounechada, Nourredine Metric properties on Lie groups of polynomial volume growth. (English and French summaries) **2005b:22023**
Bump, Daniel ★ Lie groups. **2005f:22001**
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San Martin, Luiz A. B. *see* **do Rocio, Osvaldo Germano, 2005c:22007**
Vosylius, R. Nonholonomic connections of the first degree with Galilei groups of local transformations. III. (Russian. English, Russian and Lithuanian summaries) **2005j:53018**
Willis, George A. *see* **Baumgartner, Udo, 2005f:22009**
Winkelmann, Jörg Realizing connected Lie groups as automorphism groups of complex manifolds. (English summary) **2005f:32034**

22E20 General properties and structure of other Lie groups

Klopsch, Benjamin On the Lie theory of p-adic analytic groups. (English summary) **2005k:22012**
Kushnirsky, Eugene On some Haar measures on reductive groups. (English summary) **2005d:22005**

Items with secondary classifications in 22E20

Ardakov, Konstantin Krull dimension of Iwasawa algebras. **2005e:16036**
Iwase, Norio (*with* Mimura, Mamoru; Nishimoto, Tetsu) On the cellular decomposition and the Lusternik-Schnirelmann category of Spin(7). (English summary) **2005b:55002**
— (*with* Mimura, Mamoru) L-S categories of simply-connected compact simple Lie groups of low rank. (English summary) **2005a:55001**
— (*with* Mimura, Mamoru; Nishimoto, Tetsu) Lusternik-Schnirelmann category of non-simply connected compact simple Lie groups. (English summary) **2005m:55004**
Mimura, Mamoru *see* **Iwase, Norio et al., 2005a:55001; 2005b:55002** *and* **2005m:55004**
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Wang, Xin Song (*with* Zheng, Wei Xing[2]) Properties of one class of maximal operators on $SL(2, \mathbf{R})$. (Chinese. English and Chinese summaries) **2005d:43009**
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22E25 Nilpotent and solvable Lie groups

Bouali, Bouchta (*with* Hemdaoui, Mohammed) Principe d'incertitude qualitatif pour les groupes de Lie nilpotents. (English summary) [Qualitative uncertainty principle for nilpotent Lie groups] **2005h:22008**
Goze, Michel *see* **Khakimdzhanov, Yu. B. et al., 2005e:22004**
Hemdaoui, Mohammed *see* **Bouali, Bouchta, 2005h:22008**
Khakimdzhanov, Yu. B. (*with* Goze, Michel; Medina, Alberto) Symplectic or contact structures on Lie groups. (English summary) **2005e:22004**
Lust-Piquard, Françoise A simple-minded computation of heat kernels on Heisenberg groups. (English summary) **2005g:22006**
Medina, Alberto *see* **Khakimdzhanov, Yu. B. et al., 2005e:22004**
Müller, Detlef (*with* Seeger, Andreas) Singular spherical maximal operators on a class of two step nilpotent Lie groups. (English summary) **2005e:22005**
Seeger, Andreas *see* **Müller, Detlef, 2005e:22005**
Sun, Ming-bao (*with* Yang, Xiao Ping[1]) Inequalities of Hadamard type for r-convex functions in Carnot groups. (English summary) **2005f:22010**
Warhurst, Ben Contact and quasiconformal mappings on real model filiform groups. (English summary) **2005b:22013**
Yang, Xiao Ping[1] *see* **Sun, Ming-bao, 2005f:22010**

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Arnal, Didier *see* **Abdelmoula, Lobna et al., 2005e:22006**
Baklouti, Ali (*with* Ben Salah, Nour; Smaoui, K.) Some uncertainty principles on nilpotent Lie groups. (English summary) **2005h:43007**
Barberis, María L. (*with* Dotti Miatello, Isabel G.) Complex structures on affine motion groups. (English summary) **2005i:53089**
Baues, Oliver Infra-solvmanifolds and rigidity of subgroups in solvable linear algebraic groups. (English summary) **2005c:57048**
Benjumea, J. C. (*with* Echarte Reula, Francisco Javier; Núñez-Valdés, Juan; Tenorio Villalón, Ángel F.) An obstruction to represent abelian Lie algebras by unipotent matrices. **2005h:22031**
Ben Salah, Nour *see* **Baklouti, Ali et al., 2005h:43007**
Bhatta, Chet Raj *see* **Kumar, Ajay[1], 2005f:43005**
Carlsson, Gunnar (*with* Goldfarb, Boris) On homological coherence of discrete groups. (English summary) **2005a:20078**
David-Guillou, Emilie L^p bounds for spectral multipliers on rank one NA-groups with roots not all positive. (English summary) **2005h:22009**
De Cat, Tine (*with* Dekimpe, Karel) Translations in simply transitive affine actions of 5-dimensional nilpotent Lie groups. (English summary) **2005a:22016**
Dekimpe, Karel *see* **De Cat, Tine, 2005a:22016**
Del Hierro, Martin Dispersive and Strichartz estimates on H-type groups. (English summary)
Dotti Miatello, Isabel G. *see* **Barberis, María L., 2005i:53089**
Druțu, Cornelia Filling in solvable groups and in lattices in semisimple groups. (English summary) **2005h:20078**
Eberlein, Patrick Riemannian submersions and lattices in 2-step nilpotent Lie groups. (English summary) **2005b:17022**
— Geometry of 2-step nilpotent Lie groups. **2005m:53081**
— Left invariant geometry of Lie groups. (English summary) **2005f:53076**
Echarte Reula, Francisco Javier *see* **Benjumea, J. C. et al., 2005h:22031**
Fujiwara, Hidenori (*with* Lion, Gérard; Magneron, B.; Mehdi, S.) A commutativity criterion for certain algebras of invariant differential operators on nilpotent homogeneous spaces. (English summary) **2005b:43011**
Furioli, Giulia (*with* Veneruso, Alessandro) Strichartz inequalities for the Schrödinger equation with the full Laplacian on the Heisenberg group. (English summary) **2005a:35052**
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Gorbatsevich, V. V. On algebraic Anosov diffeomorphisms on nilmanifolds. (Russian. Russian summary) **2005j:37038**
Gornet, Ruth (*with* Mast, Maura B.) The minimal marked length spectrum of Riemannian two-step nilmanifolds. **2005m:58071**
Guediri, Mohammed Compact flat spacetimes. (English summary) **2005f:53116**
Ishiwata, Satoshi A Berry-Esseen type theorem on nilpotent covering graphs. (English summary) **2005h:60134**
Joseph, Anthony The enigma of the missing invariants on the nilradical of a Borel. **2005d:17017**
Kirchheim, Bernd (*with* Serra Cassano, Francesco) Rectifiability and parameterization of intrinsic regular surfaces in the Heisenberg group. (English summary) **2005m:28013**
Kumar, Ajay[1] (*with* Bhatta, Chet Raj) An uncertainty principle like Hardy's theorem for nilpotent Lie groups. (English summary) **2005f:43005**
Lauret, Jorge Weak symmetry in naturally reductive homogeneous nilmanifolds. (English summary) **2005a:53085**
Lion, Gérard *see* **Fujiwara, Hidenori et al., 2005b:43011**
Magneron, B. *see* **Fujiwara, Hidenori et al., 2005b:43011**
Mast, Maura B. *see* **Gornet, Ruth, 2005m:58071**
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Monti, Roberto (*with* Rickly, Matthieu) Geodetically convex sets in the Heisenberg group. (English summary) **2005m:53045**
Núñez-Valdés, Juan *see* **Benjumea, J. C. et al., 2005h:22031**
Peyerimhoff, Norbert (*with* Samiou, Evangelia) The Cheeger constant of simply connected, solvable Lie groups. (English summary) **2005e:53073**
Rickly, Matthieu *see* **Monti, Roberto, 2005m:53045**
Rigot, Séverine Counter example to the Besicovitch covering property for some Carnot groups equipped with their Carnot-Carathéodory metric. (English summary) **2005k:53034**
Samiou, Evangelia *see* **Peyerimhoff, Norbert, 2005e:53073**
Selmi, Mohamed Ben Amor *see* **Abdelmoula, Lobna et al., 2005e:22006**
Serra Cassano, Francesco *see* **Kirchheim, Bernd, 2005m:28013**
Smaoui, K. *see* **Baklouti, Ali et al., 2005h:43007**
Soifer, G. A. Solvable lattices and their groups of automorphisms. (English summary) **2005h:22017**
Song, Ying-Qing (*with* Yang, Xiao Ping[1]) The chain rule and a compactness theorem for BV functions in the Heisenberg group $\mathbf{H}^n$. (English summary) **2005b:43013**
Tenorio Villalón, Ángel F. *see* **Benjumea, J. C. et al., 2005h:22031**
Urban, Roman Estimates for derivatives of the Green functions on homogeneous manifolds of negative curvature. (English summary) **2005e:35004**
— Estimates for the mixed derivatives of the Green functions on homogeneous manifolds of negative curvature. (English summary) **2005h:43014**
Veneruso, Alessandro *see* **Furioli, Giulia, 2005a:35052**
Willis, George A. Tidy subgroups for commuting automorphisms of totally disconnected groups: an analogue of simultaneous triangularisation of matrices. (English summary) **2005a:20041**
Yang, Xiao Ping[1] *see* **Song, Ying-Qing, 2005b:43013**
Yoshino, Taro A solution to Lipsman's conjecture for $\mathbb{R}^4$. **2005m:22026**
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22E27 Representations of nilpotent and solvable Lie groups (special orbital integrals, non-type I representations, etc.)

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22E30 Analysis on real and complex Lie groups [see also 33C80, 43–XX]

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22E35 Analysis on p-adic Lie groups

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22E40 Discrete subgroups of Lie groups [see also 20Hxx, 32Nxx]

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22E41 Continuous cohomology [see also 57R32, 57Txx, 58H10]

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22E43 Structure and representation of the Lorentz group

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22E47 Representations of Lie and real algebraic groups: algebraic methods (Verma modules, etc.) [see also 17B10]

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22E50 Representations of Lie and linear algebraic groups over local fields [see also 20G05]

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22E55 Representations of Lie and linear algebraic groups over global fields and adèle rings [see also 20G05]

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— (*with* Li, Wen-Ching Winnie) Character sums, automorphic forms, equidistribution, and Ramanujan graphs. II. Eigenvalues of Terras graphs. (English summary) **2005m:11120**
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Mauger, David Algèbres de Hecke quasi-ordinaires universelles. (English and French summaries) [Universal nearly ordinary Hecke algebras] **2005i:11072**
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Rajan, C. S. On Langlands functoriality—reduction to the semistable case. (English summary) **2005m:11097**
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22E60 Lie algebras of Lie groups {For the algebraic theory of Lie algebras, see 17Bxx.}

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22E65 Infinite-dimensional Lie groups and their Lie algebras [see also 17B65, 58B25, 58H05]

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Dai, Jialing (*with* Pickrell, Doug) Coadjoint orbits for the central extension of $\mathrm{Diff}^+(S^1)$ and their representatives. (English summary) **2005c:22029**
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22E67 Loop groups and related constructions, group-theoretic treatment [see also 58D05]

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22Fxx Noncompact transformation groups

22F05 General theory of group and pseudogroup actions {For topological properties of spaces with an action, see 57S20.}

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22F10 Measurable group actions [see also 22D40, 28Dxx, 37Axx]

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22F50 Groups as automorphisms of other structures

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26–XX Real functions [see also 54C30]

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26–01 Instructional exposition (textbooks, tutorial papers, etc.)

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26–02 Research exposition (monographs, survey articles)

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Means and their inequalities *see* **Bullen, P. S., 2005a:26001**

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Chistyakov, Vyacheslav V. Selections of bounded variation. (English summary) **2005i:26025**
Dragomir, Sever Silvestru ★ Discrete inequalities of the Cauchy-Bunyakovsky-Schwarz type. **2005i:26041**
(Hoskins, Roy Frank) *see* **Sousa Pinto, J., 2005g:46137**
Sousa Pinto, J. ★ Infinitesimal methods of mathematical analysis. **2005g:46137**

26–03 Historical (must also be assigned at least one classification number from Section 01)

Ito, Yoshifusa A simple algebraic method for integrating polynomials.
Maurey, Bernard (*with* Tacchi, Jean-Pierre) Ludwig Scheeffer et les extensions du théorème des accroissements finis. [Ludwig Scheeffer and the extensions of the finite-increment theorem] **2005f:26001**
Shiva Kumar, N. On a paper of Srinivasa Ramanujan. (*see* **2005d:33002**)
Tacchi, Jean-Pierre *see* **Maurey, Bernard, 2005f:26001**

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Burscheid, Hans Joachim (*with* Struve, Horst) Die Integralrechnung von Leibniz—eine Rekonstruktion. (English summary) [The integral calculus of Leibniz—a reconstruction] **2005g:01021**
Dunham, William ★ The calculus gallery. **2005k:01003**
— Touring the calculus gallery. **2005k:01004**
Grunsky, Helmut ★ Helmut Grunsky: collected papers. **2005j:30002**
Kozłowska, Grażyna *see* **Śladkowska, Janina, (2005b:01052)**
(Roth, Oliver) *see* **Grunsky, Helmut, 2005j:30002**
(Ruscheweyh, Stephan) *see* **Grunsky, Helmut, 2005j:30002**
Śladkowska, Janina (*with* Kozłowska, Grażyna) Real and complex analysis. (Polish. Polish summary) (*see* **2005b:01052**)
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Struve, Horst *see* **Burscheid, Hans Joachim, 2005g:01021**
Varošanec, Sanja History, generalizations and unified treatment of two Ostrowski's inequalities. (English summary) **2005c:26039**
Vázquez Martínez, Luis Panoramic view of fractional calculus and its applications. (Spanish. English and Spanish summaries) **2005i:26021**
Wallis, John ★ The arithmetic of infinitesimals. **2005e:01028**

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26–04 Explicit machine computation and programs (not the theory of computation or programming)

Volk, Wolfgang Evaluation of the solution of an integral-functional equation. (English summary) **2005i:26003**

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Kalman, Dan Doubly recursive multivariate automatic differentiation. **2005e:65224**
Packel, Edward W. (*with* Yuen, David S.) Projectile motion with resistance and the Lambert W function. **2005f:70023**
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26–06 Proceedings, conferences, collections, etc.

(Cho, Yeol Je) *see* **Inequality theory and applications. Vol. I, 2005a:26002**
(Dragomir, Sever Silvestru) *see* **Inequality theory and applications. Vol. I, 2005a:26002**
(Kim, Jong Kyu) *see* **Inequality theory and applications. Vol. I, 2005a:26002**

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Items with secondary classifications in 26–06

Grunsky, Helmut ★ Helmut Grunsky: collected papers. **2005j:30002**
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Opava ★ Report on the Summer Symposium in Real Analysis XXVII. **2005f:00013**
Symposium:
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26Axx Functions of one variable

26A03 Foundations: limits and generalizations, elementary topology of the line

Dems, Katarzyna On $\mathcal{I}$-Cauchy sequences. (English summary) **2005m:26001**
Móricz, Ferenc Statistical limits of measurable functions. (English summary) **2005c:26001**
Muthuvel, Kandasamy Sum and difference free sets. (English summary) **2005i:26004**

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Bandyopadhyay, Arindam *see* **Ganguly, D. K., 2005h:28001**
Ciesielski, Krzysztof² (*with* Pawlikowski, Janusz) Continuous images of big sets and additivity of s_0 under $\mathrm{CPA}_{\mathrm{prism}}$. (English summary) **2005f:03075**
Das, Ruchi (*with* Papanastassiou, Nikolaos) Some types of convergence of sequences of real valued functions. (English summary) **2005d:26006**
Ganguly, D. K. (*with* Bandyopadhyay, Arindam) Some remarks on ratio sets of linear sets. (English summary) **2005h:28001**
Papanastassiou, Nikolaos *see* **Das, Ruchi, 2005d:26006**
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Shakarchi, Rami *see* **Stein, Elias M., 2005k:28024**
Stein, Elias M. (*with* Shakarchi, Rami) ★ Real analysis. **2005k:28024**
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Wesołowska, Jolanta On sets of discrete convergence points of sequences of real functions. (English summary) **2005f:26010**
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26A06 One-variable calculus

Apostol, Tom M. (*with* Mnatsakanian, Mamikon A.) A fresh look at the method of Archimedes. **2005f:26002**
Bényi, Árpád (*with* Szeptycki, Paweł; Van Vleck, Fred) A generalized Archimedean property. (English summary) **2005e:26001**
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Cho, Yunhi (*with* Kim, Young-One) Analytic properties of the limits of the even and odd hyperpower sequences. (English summary) **2005c:26002**
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Mnatsakanian, Mamikon A. *see* **Apostol, Tom M., 2005f:26002**
Szeptycki, Paweł *see* **Bényi, Árpád et al., 2005e:26001**

Tang, Jian Guo[2] Applications of Taylor's series to a kind of inequalities. (Chinese. English and Chinese summaries)
Tang, Qiong (*with* Liu, Luo hua) Calculating higher derivatives of parameters and composites. (English and Chinese summaries)
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Luo, Qiu Ming Evaluations of the improper integrals $\int_0^\infty \frac{\sin^{2m}(\alpha x)}{x^{2n}}dx$ and $\int_0^\infty \frac{\sin^{2m+1}(\alpha x)}{x^{2n+1}}dx$. (English summary)
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Pinelis, Iosif l'Hospital rules for monotonicity and the Wilker-Anglesio inequality. **2005i:26037**
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Sheng, Qin A view of dynamic derivatives on time scales from approximations. (English summary) **2005h:39017**

26A09 Elementary functions

Kneser, Martin Ein etwas anderer Zugang zur Exponentialfunktion. (German summary) [A somewhat different approach to exponential functions]
Srinivasa Rao, Arni S. R. "U" type functions. (English summary) **2005d:26001**

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Luh, Wolfgang (*with* Trautner, R.) Sharp asymptotics for positive series. (English and Russian summaries) **2005k:26001**
Shakarchi, Rami *see* **Stein, Elias M., 2005k:28024**
Stein, Elias M. (*with* Shakarchi, Rami) ★ Real analysis. **2005k:28024**
Szeptycki, Paweł *see* **Bényi, Árpád et al., 2005e:26001**
Trautner, R. *see* **Luh, Wolfgang, 2005k:26001**
Van Vleck, Fred *see* **Bényi, Árpád et al., 2005e:26001**

26A12 Rate of growth of functions, orders of infinity, slowly varying functions [see also 26A48]

Buldygin, Valerii V. (*with* Klesov, O. Ī.; Steinebach, Josef) On asymptotic quasi-inverse functions. (English summary) **2005g:26002**
— (*with* Klesov, O. Ī.; Steinebach, Josef) On some properties of asymptotically quasi-inverse functions and their application. I. (Ukrainian. Ukrainian summary) **2005i:26005**
Đurčić, Dragan (*with* Torgašev, Aleksandar) $\mathscr{C}$-regular variability and power series. (English summary)
— (*with* Torgašev, Aleksandar) Weak asymptotic equivalence relation and inverse functions in the class OR. (English summary) **2005g:26003**
— (*with* Torgašev, Aleksandar) The numerical function of a $*$-regularly varying sequence. (English summary) **2005f:26003**
— (*with* Žižović, Mališa) On the sequence of exponents of $PO_{[0,\rho]}$-regular variability ($0 < \rho < 1$). (English summary)
— (*with* Torgašev, Aleksandar) Representation theorems for sequences in the classes CR_c and ER_c. (Russian. Russian summary) **2005i:26006**
Fast, H. (*with* Fejzić, H.; Freiling, Christopher; Rinne, D.) Recursive set relations. (English summary) **2005e:26002**
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Humke, Paul D. First-return integration: a reason for optimism.
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Simić, Slavko On the classes of rapidly varying functions. (English summary) **2005b:26002**
Steinebach, Josef *see* **Buldygin, Valerii V. et al., 2005g:26002** *and* **2005i:26005**
Tarov, V. A. Smoothly varying functions and perfect proximate orders. (Russian. Russian summary) **2005i:26007**
Tasković, Milan R. Fundamental facts on translational $\mathscr{C}$-regularly varying functions. (English summary) **2005f:26005**
Torgašev, Aleksandar *see* **Đurčić, Dragan, 2005f:26003; 2005g:26003** *and* **2005i:26006**
Trautner, R. *see* **Luh, Wolfgang, 2005k:26001**
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Arandjelović, Ivan D. A note on the Sorgenfrey line. (English summary)
Çanak, İbrahim *see* **Dik, Mehmet et al., 2005g:40013**
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Filevich, P. V. On the growth of the maximum modulus of an entire function on a sequence. (Ukrainian. English and Ukrainian summaries) **2005a:30053**
Gogatishvili, Amiran (*with* Opic, Bohumír; Trebels, Walter) Limiting reiteration for real interpolation with slowly varying functions. (English summary) **2005k:46048**
Jaroš, J. (*with* Kusano, Takaši) Self-adjoint differential equations and generalized Karamata functions. (English summary) **2005h:34084**
Kusano, Takaši *see* **Jaroš, J., 2005h:34084**
Neves, Júlio S. Spaces of Bessel-potential type and embeddings: the super-limiting case. (English summary) **2005a:46071**
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Supper, Raphaële Subharmonic functions of order less than one. (English summary) **2005m:31009**
Tikhonov, Sergeĭ Yu. Estimates for the moduli of smoothness of a transformed Fourier series. (Russian. Russian summary) **2005b:42006**
Trebels, Walter *see* **Gogatishvili, Amiran et al., 2005k:46048**

26A15 Continuity and related questions (modulus of continuity, semicontinuity, discontinuities, etc.) {For properties determined by Fourier coefficients, see 42A16; for those determined by approximation properties, see 41A25, 41A27.}

Anastassiou, George A. Taylor integral remainders and moduli of smoothness. (English summary) **2005b:26003**
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Ciesielski, Krzysztof[2] (*with* Pawlikowski, Janusz) Nice Hamel bases under the covering property axiom. (English summary) **2005f:26007**
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Grande, Marcin On the sums of unilaterally approximately continuous and approximate jump functions. (English summary) **2005d:26002**
— On the maximum of two unilaterally continuous regulated functions. (English summary) **2005g:26004**
Grande, Zbigniew Extending some functions to strongly approximately quasicontinuous functions. (English summary) **2005g:26005**
— On Darboux $\mathbb{Q}$-differentiable functions and Darboux Wright convex function. (English summary) **2005f:26008**
— (*with* Fatz-Grupka, Anna) On countably continuous functions. (English summary) **2005h:26002**
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Kim, Sung Soo[1] (*with* Plewik, Szymon) Discontinuity and involutions on countable sets. (English summary) **2005b:26004**
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Leindler, László On embedding of the class H^ω. (English summary) **2005k:26004**
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Marciniak, Mariola On path continuity. (English summary) **2005a:26003**
Pawlak, Helena Properties of the space $\mathscr{DB}_1^{**}$ with the metric of uniform convergence. (English summary) **2005b:26005**
Pawlikowski, Janusz *see* **Ciesielski, Krzysztof[2], 2005f:26007**
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Płotka, Krzysztof On cardinal invariant concerning the family of Hamel functions.
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Samko, Natasha On compactness of integral operators with a generalized weak singularity in weighted spaces of continuous functions with a given continuity modulus. (English and Georgian summaries) **2005i:26008**
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Szuca, Piotr Loops of intervals and Darboux Baire 1 fixed point problem. (English summary) **2005d:26005**
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Szyszkowski, Marcin Symmetric derivatives on subsets of the real line and monotonicity. (English summary) **2005e:26004**

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Berger, Josef Exact calculation of inverse functions. (English summary) **2005j:03047**
Cater, F. S. On the level structure of bounded derivatives. (English summary) **2005f:26011**
Chmielewska, Katarzyna Strong supmeasurability of functions of two variables. (English summary) **2005h:28007**
Dutta, Chandana *see* **Mitra, D. K. Ganguly Chandrani**, 2005h:40016
Goginava, Ushangi (*with* Tskhadaia, V.) On the embedding $V[v(n)] \subset H_p^\omega$. (English and Georgian summaries) **2005k:26025**
Grande, Marcin On the limits of functions of two variables. (English summary) **2005f:26033**
— On the measurability of functions satisfying some approximate quasicontinuity conditions. (English summary) **2005m:28006**
Grande, Zbigniew (*with* Strońska, Ewa) On universal elements for some families of functions. (English summary) **2005f:54033**
— (*with* Strońska, Ewa) Some observations on regular dependence of total variation on parameters. (English summary) **2005m:26013**
Humke, Paul D. (*with* Laczkovich, Miklós) Symmetrically approximately continuous functions, consistent density theorems, and Fubini type inequalities. (English summary) **2005i:03058**
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Kel'zon, A. A. Determination of the jump of a function of generalized bounded variation by the derivatives of a trigonometric interpolation polynomial. (Russian. Russian summary) **2005k:42009**
Koval', D. A. Some extremal problems for continuous real functions specified by transducers. (Russian. English and Ukrainian summaries) **2005e:68128**
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Leindler, László Integrability of sine and cosine series having coefficients of a new class. (English summary) **2005f:42009**
Lyapina, M. S. On the Lipschitz constant for a nonisometric bi-Lipschitz transformation of a Cantor set. (English summary) **2005k:28017**
Machura, Michał Cardinal invariants $\mathfrak{p}$, $\mathfrak{t}$ and $\mathfrak{h}$ and real functions. (English summary) **2005k:03110**
Mitra, D. K. Ganguly Chandrani (*with* Dutta, Chandana) Some remarks on certain types of continuity. (English summary) **2005h:40016**
Neves, Júlio S. Spaces of Bessel-potential type and embeddings: the super-limiting case. (English summary) **2005a:46071**
O'Farrell, Anthony G. When uniformly-continuous implies bounded.
Pata, Vittorino (*with* Villani, Alfonso) Some measurability and continuity properties of arbitrary real functions. (English summary) **2005g:28006**
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Tarov, V. A. Smoothly varying functions and perfect proximate orders. (Russian. Russian summary) **2005i:26007**
Tikhonov, Sergeĭ Yu. On generalized Lipschitz classes and Fourier series. (English summary) **2005k:26007**
Tskhadaia, V. *see* **Goginava, Ushangi**, 2005k:26025
Twomey, J. B. Strong approximate continuity properties of certain conjugate functions. (English summary) **2005m:42014**
Villani, Alfonso *see* **Pata, Vittorino**, 2005g:28006
Wilczyński, Władysław Density topology and pointwise convergence. (English summary) **2005e:54021**
Zhou, Xinlong Subdivision schemes with nonnegative masks. (English summary) **2005m:65033**

26A16 Lipschitz (Hölder) classes

Belov, Yu. S. (*with* Khavin, Viktor Petrovich) On a theorem of I. I. Privalov on the Hilbert transform of Lipschitz functions. (Russian. English, Russian and Ukrainian summaries) **2005k:26006**
Dovgoshei, A. A. (*with* Potemkina, L. L.) Analyticity of higher-order moduli of continuity of real-analytic functions. (Russian. English and Ukrainian summaries) **2005e:26005**
Gupta, J. K. *see* **Gupta, Virendra K. et al.**
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Gupta, Virendra K. (*with* Gupta, Vandana; Gupta, J. K.) Functions of class Lip(ψ, p) and their Taylors means.
Jaffard, Stéphane Multifractal functions: recent advances and open problems. (English summary) **2005m:26005**
Khavin, Viktor Petrovich *see* **Belov, Yu. S.**, 2005k:26006
Potemkina, L. L. *see* **Dovgoshei, A. A.**, 2005e:26005
Tikhonov, Sergeĭ Yu. On generalized Lipschitz classes and Fourier series. (English summary) **2005k:26007**
Torriani, Hugo H. Continuous families of Hölder functions that are not of bounded variation. (English summary) **2005f:26009**

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Appell, Jürgen A short story on microscopic sets. (English summary)
Bony, Jean-Michel Décomposition des fonctions positives en sommes de carrés. (English and French summaries) [Decomposition of positive functions into sums of squares] **2005m:26002**
Giraud, Gael (*with* Quah, John K.-H.) Homothetic or Cobb-Douglas behavior through aggregation. (English summary) **2005i:91075**
Jaffard, Stéphane On Davenport expansions. (English summary) **2005k:11161**
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Smajdor, Wilhelmina (*with* Szczawińska, Joanna) On Lipschitz midconvex multifunctions. (English summary) **2005f:26031**
Szczawińska, Joanna *see* **Smajdor, Wilhelmina**, 2005f:26031
Trif, Tiberiu Convexity of the gamma function with respect to Hölder means. (English summary) **2005b:33002**

26A18 Iteration [see also 37Bxx, 37Cxx, 37Exx, 39B12, 47H10, 54H25]

Acosta-Humanez, Primitivo B. An application of functional analysis in a predator-prey system. (English summary) **2005j:26002**
Bobok, Jozef On a space of Besicovitch functions. (English summary) **2005j:26003**
Lukkassen, Dag (*with* Peetre, Jaak; Persson, Lars-Erik) On some iterated means arising in homogenization theory. (English summary) **2005c:26003**
Peetre, Jaak *see* **Lukkassen, Dag et al.**, 2005c:26003
Persson, Lars-Erik *see* **Lukkassen, Dag et al.**, 2005c:26003

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Babilonová-Štefánková, Marta *see* **Reich, Ludwig et al.**, 2005h:39040
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26A21 Classification of real functions; Baire classification of sets and functions [see also 03E15, 28A05, 54C50]

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26A27 Nondifferentiability (nondifferentiable functions, points of nondifferentiability), discontinuous derivatives

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26A30 Singular functions, Cantor functions, functions with other special properties

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26A36 Antidifferentiation

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26A45 Functions of bounded variation, generalizations

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26A46 Absolutely continuous functions

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26A48 Monotonic functions, generalizations

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26A51 Convexity, generalizations

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26Bxx Functions of several variables

26B05 Continuity and differentiation questions

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26B10 Implicit function theorems, Jacobians, transformations with several variables

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26B12 Calculus of vector functions

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26B15 Integration: length, area, volume [see also 28A75, 51M25]

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26B30 Absolutely continuous functions, functions of bounded variation

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26Cxx Polynomials, rational functions

26C05 Polynomials: analytic properties, etc. [see also 12Dxx, 12Exx]

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26C10 Polynomials: location of zeros [see also 12D10, 30C15, 65H05]

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26C15 Rational functions [see also 14Pxx]

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26E15 Calculus of functions on infinite-dimensional spaces [see also 46G05, 58Cxx]

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28–XX Measure and integration {For analysis on manifolds, see 58–XX.}

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Kurtz, Douglas S. (*with* Swartz, Charles W.) ★ Theories of integration. **2005b:26001**
Swartz, Charles W. *see* **Kurtz, Douglas S.**, **2005b:26001**

28–03 Historical (must also be assigned at least one classification number from Section 01)

Debnath, Lokenath Four major discoveries in applied mathematics during the second half of the twentieth century. (English summary) (*see* **2005m:00007**)

Items with secondary classifications in 28–03

(Edgar, Gerald A.) *see* **Classics on fractals**, **2005f:28002**
(Kumagai, Takashi) *see* **Morita, Yasuo** *and* **Osada, Hirofumi**
Morita, Yasuo Award of the Spring 2004 prize of the Mathematical Society of Japan to Takashi Kumagai for his work on "Research on stochastic processes on fractals". (Japanese)
Ornsteĭn, D. Kolmogorov, random processes, and Newtonian dynamics. (Russian. Russian summary) **2005m:37002**
Osada, Hirofumi The work of Takashi Kumagai—Research on diffusion processes on fractals. (Japanese)
Roselli, Paolo (*with* Willem, Michel) The Lebesgue integral immediately after calculus. **2005m:28001**
Willem, Michel *see* **Roselli, Paolo**, **2005m:28001**

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Classics on fractals ★ Classics on fractals. **2005f:28002**

28–06 Proceedings, conferences, collections, etc.

(Bandt, Christoph) *see* **Fractal geometry and stochastics III**, **2005c:28003**
(Edgar, Gerald A.) *see* **Classics on fractals**, **2005f:28002**
(van Frankenhuysen, Machiel) *see* **Fractal geometry and applications: a jubilee of Benoît Mandelbrot. Part 1**, **2005g:28001** *and* **Fractal geometry and applications: a jubilee of Benoît Mandelbrot. Part 2**, **2005g:28002**
(Grabner, Peter J.) *see* **Fractals in Graz 2001**, **2005d:28002**
(Lapidus, Michel L.) *see* **Fractal geometry and applications: a jubilee of Benoît Mandelbrot. Part 1**, **2005g:28001** *and* **Fractal geometry and applications: a jubilee of Benoît Mandelbrot. Part 2**, **2005g:28002**
(Mandelbrot, Benoît B.) *see* **Fractal geometry and applications: a jubilee of Benoît Mandelbrot. Part 1**, **2005g:28001** *and* **Fractal geometry and applications: a jubilee of Benoît Mandelbrot. Part 2**, **2005g:28002**
(Mosco, Umberto) *see* **Fractal geometry and stochastics III**, **2005c:28003**
(Woess, Wolfgang) *see* **Fractals in Graz 2001**, **2005d:28002**
(Zähle, Martina) *see* **Fractal geometry and stochastics III**, **2005c:28003**

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Classics on fractals ★ Classics on fractals. **2005f:28002**
Fractal geometry and applications: a jubilee of Benoît Mandelbrot. Part 1 ★ Fractal geometry and applications: a jubilee of Benoît Mandelbrot. Part 1. **2005g:28001**
Fractal geometry and applications: a jubilee of Benoît Mandelbrot. Part 2 ★ Fractal geometry and applications: a jubilee of Benoît Mandelbrot. Part 2. **2005g:28002**
Fractal geometry and stochastics III ★ Fractal geometry and stochastics III. **2005c:28003**
Fractals in Graz 2001 ★ Fractals in Graz 2001. **2005d:28002**
Friedrichroda ★ Fractal geometry and stochastics III. **2005c:28003**
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— ★ Fractal geometry and applications: a jubilee of Benoît Mandelbrot. Part 2. **2005g:28002**
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— ★ Fractal geometry and applications: a jubilee of Benoît Mandelbrot. Part 2. **2005g:28002**

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(Assani, Idris) *see* **Workshop: Ergodic Theory, Chapel Hill**, **2005d:37002**

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Contemporary Mathematics ★ Chapel Hill Ergodic Theory Workshops. **2005d:37002**
Opava ★ Report on the Summer Symposium in Real Analysis XXVII. **2005f:00013**
Symposium:
Real Analysis ★ Report on the Summer Symposium in Real Analysis XXVII. **2005f:00013**
Workshop:
Ergodic Theory, Chapel Hill ★ Chapel Hill Ergodic Theory Workshops. **2005d:37002**

28Axx Classical measure theory

Items with secondary classifications in 28Axx

Denkowski, Zdzisław (*with* Migórski, Stanisław; Papageorgiou, Nikolaos S.) ★ An introduction to nonlinear analysis: theory. **2005a:47089**
Migórski, Stanisław *see* **Denkowski, Zdzisław et al.**, **2005a:47089**
Papageorgiou, Nikolaos S. *see* **Denkowski, Zdzisław et al.**, **2005a:47089**
Vestrup, Eric M. ★ The theory of measures and integration. **2005i:28001**

28A05 Classes of sets (Borel fields, σ-rings, etc.), measurable sets, Suslin sets, analytic sets [see also 03E15, 26A21, 54H05]

Appell, Jürgen A short story on microscopic sets. (English summary)
Balcerzak, Marek (*with* Bartoszewicz, Artur; Koszmider, Piotr) On Marczewski-Burstin representable algebras. (English summary) **2005d:28003**
Bandyopadhyay, Arindam *see* **Ganguly, D. K.**, **2005h:28001**
Bartoszewicz, Artur MB-representations of algebras generated by intervals. (English summary) **2005f:28003**
— *see also* **Balcerzak, Marek et al.**, **2005d:28003**
Bayasgalan, Ts. (*with* Dayantsolmon, D.) The cardinality of σ-algebra. (English summary)
Ciesielski, Krzysztof^2 (*with* Laczkovich, Miklós) Strong Fubini properties for measure and category. (English summary) **2005a:28002**
Dayantsolmon, D. *see* **Bayasgalan, Ts.**
Fīnkel'shteĭn, D. L. Second order differential operators on the configuration spaces. (English summary) **2005k:28002**
Ganguly, D. K. (*with* Bandyopadhyay, Arindam) Some remarks on ratio sets of linear sets. (English summary) **2005h:28001**
Holický, Petr Extensions of Borel measurable maps and ranges of Borel bimeasurable maps. (English summary) **2005d:28004**
Horbaczewska, Grażyna (*with* Wilczyński, Władysław) Topologies similar to the density topology. **2005i:28002**
Kharazishvili, A. B. On absolutely nonmeasurable additive functions. (English summary) **2005d:28005**
— On negligible and absolutely nonmeasurable subsets of the Euclidean plane. (English summary) **2005e:28002**
— (*with* Kirtadze, A.) On algebraic sums of measure zero sets in uncountable commutative groups. (English and Georgian summaries) **2005h:28002**
— (*with* Kirtadze, A.) On algebraic sums of absolutely negligible sets. (English and Georgian summaries) **2005j:28002**
Kirtadze, A. *see* **Kharazishvili, A. B.**, **2005h:28002** *and* **2005j:28002**
Koszmider, Piotr *see* **Balcerzak, Marek et al.**, **2005d:28003**
Laczkovich, Miklós *see* **Ciesielski, Krzysztof**^{2}, **2005a:28002**
Mátrai, Tamás (*with* Ruzsa, Imre Z.) A characterization of essentially ejective sets. (English summary) **2005d:28006**
Pantsulaia, Gogi R. Relations between shy sets and sets of v_p-measure zero in Solovay's model. (English summary) **2005e:28003**
Pelant, Jan *see* **Zelený, Miroslav**, **2005f:28004**
Plewik, Szymon A set of measure zero containing a copy of any finite set. (English summary) **2005d:28007**
Ruzsa, Imre Z. *see* **Mátrai, Tamás**, **2005d:28006**
Shragin, Isaak V. On a measurability of a superposition, which defines nonlinear integral Musielak operator. (English summary) **2005j:28003**

— On structure of some σ-algebras related to measurability of superpositions. (English summary) **2005k:28003**
Wilczyński, Władysław Statistical density points. (English summary) **2005k:28004**
— *see also* **Horbaczewska, Grażyna**, **2005i:28002**
Zelený, Miroslav (*with* Pelant, Jan) The structure of the σ-ideal of σ-porous sets. (English summary) **2005f:28004**

Items with secondary classifications in 28A05

Balcerzak, Marek (*with* Bartoszewicz, Artur; Ciesielski, Krzysztof[2]) Algebras with inner MB-representation. (English summary) **2005c:06010**
Banakh, Taras O. (*with* Vovk, M. Ī.) Separately F_σ-measurable functions are similar to functions of the first Baire class. (Ukrainian. English and Ukrainian summaries) **2005g:26007**
Bartoszewicz, Artur *see* **Balcerzak, Marek et al.**, **2005c:06010**
Bhaskara Rao, K. P. S. *see* **Kłopotowski, A. et al.**, **2005b:28008**
Blackmore, D. L. *see* **Mikityuk, Ya. V. et al.**, **2005a:35041**
Cantón, Alicia (*with* Granados, Ana; Pommerenke, Christian) Borel images and analytic functions. **2005g:30024**
Ciesielski, Krzysztof[2] *see* **Balcerzak, Marek et al.**, **2005c:06010**
Delaware, Richard Graphs of convex functions are $\sigma 1$-straight. (English summary) **2005a:28015**
Dobrinen, Natasha L. (*with* Simpson, Stephen G.) Almost everywhere domination. (English summary) **2005d:03079**
Dodos, Pandelis On certain regularity properties of Haar-null sets. (English summary) **2005g:28022**
Farah, Ilijas (*with* Zapletal, Jindřich) Between Maharam's and von Neumann's problems. (English summary) **2005i:03059**
Filipów, Rafał On the difference property of families of measurable functions. (English summary) **2005d:28009**
Granados, Ana *see* **Cantón, Alicia et al.**, **2005g:30024**
Holický, Petr (*with* Spurný, Jiří) F_σ-mappings and the invariance of absolute Borel classes. (English summary) **2005h:54032**
— (*with* Pelant, Jan) Internal descriptions of absolute Borel classes. (English summary) **2005c:54028**
Jędrzejewska, Inga (*with* Szkopińska, Bożena) The k-pseudo-symmetric $\mathcal{I}$-approximate derivatives. (English summary) **2005k:26010**
Kanovei, Vladimir (*with* Reeken, Michael) Borel irreducibility between two large families of Borel equivalence relations. (English summary) **2005e:03105**
Kharazishvili, A. B. ★ Nonmeasurable sets and functions. **2005d:28001**
Kłopotowski, A. (*with* Nadkarni, M. G.; Bhaskara Rao, K. P. S.) Geometry of good sets in n-fold Cartesian product. (English summary) **2005b:28008**
Koltchinskii, Vladimir *see* **Lugosi, Gábor et al.**, **2005k:62106**
Lugosi, Gábor (*with* Mendelson, Shahar; Koltchinskii, Vladimir) A note on the richness of convex hulls of VC classes. (English summary) **2005k:62106**
Mendelson, Shahar *see* **Lugosi, Gábor et al.**, **2005k:62106**
Mikityuk, Ya. V. (*with* Prikarpat·skiĭ, A. K.; Blackmore, D. L.) The Lax solution to a Hamilton-Jacobi equation and its generalizations. II. (English summary) **2005a:35041**
Nadkarni, M. G. *see* **Kłopotowski, A. et al.**, **2005b:28008**
Pantsulaia, Gogi R. An application of independent families of sets to the measure extension problem. (English summary) **2005g:28023**
Pelant, Jan *see* **Holický, Petr**, **2005c:54028**
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Prokaj, Vilmos A characterization of singular measures. (English summary) **2005f:28008**
Recław, Ireneusz On non-measurable unions of sections of a Borel set. (English summary) **2005c:03089**
Reeken, Michael *see* **Kanovei, Vladimir**, **2005e:03105**
Shelah, Saharon The null ideal restricted to some non-null set may be $\aleph_1$-saturated. (English summary) **2005d:03090**
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Spurný, Jiří F_σ-additive families and the invariance of Borel classes. (English summary) **2005i:54045**
— *see also* **Holický, Petr**, **2005h:54032**
Stoka, Marius Ion On the measurability of the conic sections' family in the projective space $\mathcal{P}_n$. (English and Italian summaries) **2005e:53117**
Svistula, M. G. On the connectedness of the range of a group-valued finitely additive measure. (Russian. English and Russian summaries) **2005m:28030**
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Tomaszewska, A. On permuted products of σ-ideals. (English summary)
Volchkov, Valeriĭ Vladimirovich ★ Integral geometry and convolution equations. **2005e:28001**
Vovk, M. Ī. *see* **Banakh, Taras O.**, **2005g:26007**
Zapletal, Jindřich *see* **Farah, Ilijas**, **2005i:03059**
Zoli, Enrico On the equivalence between CH and the existence of certain $\mathcal{I}$-Luzin subsets of $\mathbb{R}$. (English summary) **2005e:03108**

28A10 Real- or complex-valued set functions

Asahina, Shin *see* **Murofushi, Toshiaki et al.**, **2005g:28003**
Chateauneuf, Alain (*with* Rébillé, Yann) A Yosida-Hewitt decomposition for totally monotone games. (English summary) **2005c:28004**
Chentsov, A. G. (*with* Morina, S. I.) An extension of the length function in the class of purely finitely additive probabilities. (English summary) **2005f:28005**
Kulcsárová, Oĺga Regularity from the standpoint of small systems. (English summary) **2005k:28005**
Lee, Tuo-Yeong Product variational measures and Fubini-Tonelli type theorems for the Henstock-Kurzweil integral. (English summary) **2005k:28006**
Li, Jun[4] (*with* Yasuda, Masami) Egoroff's theorem on monotone non-additive measure spaces. (English summary) **2005c:28005**
Lipecki, Zbigniew The variation of an additive function on a Boolean algebra. (English summary) **2005i:28003**
Lipovan, Octavian A probabilistic generalization of integrability for positive functions. (English summary) **2005m:28003**
Morina, S. I. *see* **Chentsov, A. G.**, **2005f:28005**
Murofushi, Toshiaki (*with* Uchino, Kenta; Asahina, Shin) Conditions for Egoroff's theorem in non-additive measure theory. (English summary) **2005g:28003**
— *see also* **Narukawa, Yasuo**, **2005a:28003**
Narukawa, Yasuo (*with* Murofushi, Toshiaki) Regular non-additive measure and Choquet integral. (English summary) **2005a:28003**
Rébillé, Yann *see* **Chateauneuf, Alain**, **2005c:28004**
Sribnaya, T. A. On a generalization of the Nikodým convergence theorem. (Russian. English and Russian summaries) **2005j:28004**
Uchino, Kenta *see* **Murofushi, Toshiaki et al.**, **2005g:28003**
Yasuda, Masami *see* **Li, Jun[4]**, **2005c:28005**

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Benvenuti, Pietro (*with* Mesiar, Radko) On Tarski's contribution to the additive measure theory and its consequences. (English summary) **2005h:28005**
Chentsov, A. G. Extensions in the class of finitely additive measures. (English summary) **2005k:28010**
Costinescu, Olga A positive additive left-invariant set function on an (s)-continuous group. (English summary) **2005m:28035**
Gutman, A. E. (*with* Sotnikov, A. I.) Order properties of spaces of finitely additive transition functions. (Russian. Russian summary) **2005e:47102**
Kramosil, Ivan Almost-measurability relation induced by lattice-valued partial possibilistic measures. (English summary) **2005i:06004**
Li, Jun[4] A further investigation for Egoroff's theorem with respect to monotone set functions. (English summary) **2005a:28010**
Mačaj, Martin (*with* Mišík, Ladislav[2]; Šalát, Tibor; Tomanová, J.) On a class of densities of sets of positive integers. (English summary) **2005i:11014**
Mesiar, Radko *see* **Benvenuti, Pietro**, **2005h:28005**
Mišík, Ladislav[2] *see* **Mačaj, Martin et al.**, **2005i:11014**
Nevo, Amos Radial geometric analysis on groups. (English summary) **2005j:22006**
Poreda, Wiesława (*with* Wilczyński, Władysław) Topology similar to the density topology. (Polish summary) **2005b:54007**
Powell, Olivier A note on measuring in P. (English summary) **2005b:68108**
Ramachandran, D. (*with* Rüschendorf, Ludger) Assignment models for constrained marginals and restricted markets. (English summary) **2005b:90153**
Rüschendorf, Ludger *see* **Ramachandran, D.**, **2005b:90153**
Šalát, Tibor *see* **Mačaj, Martin et al.**, **2005i:11014**
Sotnikov, A. I. *see* **Gutman, A. E.**, **2005e:47102**
Staiger, Ludwig Constructive dimension equals Kolmogorov complexity. (English summary) **2005k:68101**
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28A12 Contents, measures, outer measures, capacities

Arandjelović, Ivan D. An inequality for the Lebesgue measure. (English summary) **2005h:28003**
Avallone, Anna (*with* Basile, Achille) On a linearity theorem for measures. (English summary) **2005h:28004**
Barrieu, Pauline (*with* El Karoui, Nicole) Optimal derivatives design under dynamic risk measures. (English summary) **2005f:28006**
Basile, Achille *see* **Avallone, Anna**, **2005h:28004**
Beĭnenson, L. B. Monotonically nonincreasing random fields on partially ordered sets. II. Probability distributions on polyhedral cones. (Russian. English and Russian summaries) **2005g:28004**
Benvenuti, Pietro (*with* Mesiar, Radko) On Tarski's contribution to the additive measure theory and its consequences. (English summary) **2005h:28005**
Bisbas, Antonis Coin-tossing measures and their Fourier transforms. (English summary) **2005j:28005**
Borkar, Vivek S. (*with* Konda, Vijay R.; Mitter, Sanjoy K.) On De Finetti coherence and Kolmogorov probability. (English summary) **2005a:28004**
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El Karoui, Nicole *see* **Barrieu, Pauline**, **2005f:28006**
Fradelizi, Matthieu (*with* Guédon, Olivier) The extreme points of subsets of s-concave probabilities and a geometric localization theorem. (English summary) **2005f:28007**
Gil Álvarez, Pedro Ángel *see* **Miranda, Pedro et al.**, **2005k:28008**
Grabisch, Michel *see* **Miranda, Pedro et al.**, **2005k:28008**
Guédon, Olivier *see* **Fradelizi, Matthieu**, **2005f:28007**
Konda, Vijay R. *see* **Borkar, Vivek S. et al.**, **2005a:28004**
König, Heinz J. E. The (sub/super)additivity assertion of Choquet. (English summary) **2005b:28001**
— Projective limits via inner premeasures and the true Wiener measure. (English summary) **2005g:28005**
Le Xuan Son *see* **Nguyen Nhuy**, **2005h:28006**
Li, Jun[4] *see* **Song, Jinjie**, **2005i:28005**
Lindner, Sebastian Additional properties of the measure v_f. (English summary) **2005m:28004**
Loranty, Anna On the sequential density points. (English summary) **2005b:28002**
Lu, Shu Zhang Measurement on continuous posets. (Chinese. English and Chinese summaries) **2005k:28007**
Luschgy, Harald (*with* Solecki, Sławomir) Strong continuity of invariant probability charges. (English summary) **2005i:28004**

Marichal, Jean Luc Tolerant or intolerant character of interacting criteria in aggregation by the Choquet integral. (English summary) **2005b:28003**
Mesiar, Radko *see* **Benvenuti, Pietro**, **2005h:28005**
Miranda, Pedro (*with* Grabisch, Michel; Gil Álvarez, Pedro Ángel) Axiomatic structure of k-additive capacities. (English summary) **2005k:28008**
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Nguyen, Hung Trung Choquet weak convergence of capacity functionals of random sets. **2005j:28006**
Nguyen Nhuy (*with* Le Xuan Son) Probability capacities in $\mathbb{R}^d$ and the Choquet integral for capacities. (English summary) **2005h:28006**
Prokaj, Vilmos A characterization of singular measures. (English summary) **2005f:28008**
Solecki, Sławomir *see* **Luschgy, Harald**, **2005i:28004**
Song, Jinjie (*with* Li, Jun[4]) Lebesgue theorems in non-additive measure theory. (English summary) **2005i:28005**
(Tarski, Alfred) *see* **Benvenuti, Pietro**, **2005h:28005**
Traina, Charles On finitely subadditive outer measures and modularity properties. (English summary) **2005a:28006**

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Araujo, Aloísio (*with* Martins-da-Rocha, V. Filipe; Monteiro, Paulo K.) Equilibria in reflexive Banach lattices with a continuum of agents. (English summary) **2005e:91113**
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— A continuous version of the Brascamp-Lieb inequalities. (English summary) **2005i:52011**
Bartoszyński, Tomek (*with* Halbeisen, Lorenz) On a theorem of Banach and Kuratowski and K-Lusin sets. (English summary) **2005a:03093**
Bolaños, M. Jorge (*with* Reche, Fernando) Fuzzy integrals on partially-known measures. (*see* **2005i:62007**)
Buhagiar, David (*with* Chetcuti, Emmanuel) On complete-cocomplete subspaces of an inner product space. (English summary) **2005m:46041**
Bystritskiĭ, V. D. *see* **Ryabinin, A. A. et al.**, **2005h:26007**
Castaldo, Adrianna (*with* Maccheroni, Fabio; Marinacci, Massimo) Random correspondences as bundles of random variables. (English summary) **2005i:28030**
Chateauneuf, Alain (*with* Rico, Agnès) A Sugeno integral representation under Stone condition. (English summary) **2005m:91053**
Chentsov, A. G. (*with* Morina, S. I.) An extension of the length function in the class of purely finitely additive probabilities. (English summary) **2005f:28005**
Chetcuti, Emmanuel *see* **Buhagiar, David**, **2005m:46041**
Crnjac, M. (*with* Čunjalo, F.; Miller, H. I.) Subsequence characterizations of statistical convergence of double sequences. (English and Serbo-Croatian summaries) **2005e:40012**
Csörnyei, Marianna (*with* Darji, Udayan B.; Evans, Michael Jon; Humke, Paul D.) First-return integrals. (English summary) **2005k:26021**
Čunjalo, F. *see* **Crnjac, M. et al.**, **2005e:40012**
Darji, Udayan B. *see* **Csörnyei, Marianna et al.**, **2005k:26021**
Erdoğan, M. Burak A note on the Fourier transform of fractal measures. **2005j:42008**
Evans, Michael Jon *see* **Csörnyei, Marianna et al.**, **2005k:26021**
Fernandes, E. *see* **Álvarez Paiva, Juan Carlos**, **2005e:53114**
Filipczak, Małgorzata (*with* Hejduk, Jacek) On topologies associated with the Lebesgue measure. (English summary) **2005e:54036**
Fīnkel'shteĭn, D. L. The spectral gap inequality in configuration spaces and the concentration properties of a Poisson measure. (Ukrainian. English summary) **2005g:35223**
Franchi, Bruno *see* **Baldi, Annalisa**, **2005i:26034**
Frantz, Marc Lacunarity, Minkowski content, and self-similar sets in $\mathbb{R}$. (English summary) (*see* **2005g:28001**)
Giraud, Gael (*with* Quah, John K.-H.) Homothetic or Cobb-Douglas behavior through aggregation. (English summary) **2005i:91075**
Grabisch, Michel (*with* Labreuche, Christophe; Marichal, Jean Luc; Miranda, Pedro) k-intolerant bi-capacities and veto criteria. (*see* **2005i:62007**)
— *see also* **Miranda, Pedro**, **2005i:28037**
Guo, Caimei *see* **Zhang, Deli et al.**, **2005j:28019**
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Hare, Kathryn E. (*with* Roginskaya, Maria) Energy of measures on compact Riemannian manifolds. (English summary) **2005e:58009**
Hejduk, Jacek *see* **Filipczak, Małgorzata**, **2005e:54036**
Humke, Paul D. *see* **Csörnyei, Marianna et al.**, **2005k:26021**
Il'ichev, V. A. *see* **Ryabinin, A. A. et al.**, **2005h:26007**
Iosevich, Alex *see* **Arutyunyants, G. V.**, **2005i:28010**
Jakšić, Vojkan (*with* Last, Yoram) A new proof of Poltoratskii's theorem. (English summary) **2005d:47027**
Jang, Lee-Chae *see* **Kim, Hyun Mee et al.**, **2005i:28038**
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28A35 Measures and integrals in product spaces

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28Bxx Set functions, measures and integrals with values in abstract spaces

28B05 Vector-valued set functions, measures and integrals [see also 46G10]

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28Cxx Set functions and measures on spaces with additional structure [see also 46G12, 58C35, 58D20]

28C05 Integration theory via linear functionals (Radon measures, Daniell integrals, etc.), representing set functions and measures

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Fremlin, David Radon measures. (English summary) **2005m:28034**
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Dani, S. G. (*with* Shah, Riddhi) Asymptotic behaviour under iterated random linear transformations. (English summary) **2005i:60018**
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28C20 Set functions and measures and integrals in infinite-dimensional spaces (Wiener measure, Gaussian measure, etc.) [see also 46G12, 58C35, 58D20, 60B11]

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— (*with* Kim, Byung Soo[1]; Skoug, David) Integral transforms, convolution products, and first variations. (English summary) **2005d:28027**
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Bojdecki, Tomasz (*with* Gorostiza, Luis G.) Occupation times of Brownian segments and the σ-finite Wiener measure. (English summary) **2005m:60182**
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28Dxx Measure-theoretic ergodic theory [see also 11K50, 11K55, 22D40, 37Axx, 47A35, 54H20, 60Fxx, 60G10]

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(Assani, Idris) *see* **Workshop: Ergodic Theory, Chapel Hill**, 2005d:37002

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28D05 Measure-preserving transformations

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28Exx Miscellaneous topics in measure theory

28E05 Nonstandard measure theory [see also 03H05, 26E35]

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28E99 None of the above, but in this section

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30–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

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30–01 Instructional exposition (textbooks, tutorial papers, etc.)

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30Axx General properties

30A05 Monogenic properties of complex functions (including polygenic and areolar monogenic functions)

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30Bxx Series expansions

30B10 Power series (including lacunary series)

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30B70 Continued fractions [see also 11A55, 40A15]

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30Cxx Geometric function theory

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30C15 Zeros of polynomials, rational functions, and other analytic functions (e.g. zeros of functions with bounded Dirichlet integral) {For algebraic theory, see 12D10; for real methods, see 26C10.}

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30C25 Covering theorems in conformal mapping theory

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30C35 General theory of conformal mappings

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30C70 Extremal problems for conformal and quasiconformal mappings, variational methods

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30C80 Maximum principle; Schwarz's lemma, Lindelöf principle, analogues and generalizations; subordination

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30C85 Capacity and harmonic measure in the complex plane [see also 31A15]

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30Dxx Entire and meromorphic functions, and related topics

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30D20 Entire functions, general theory

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30D30 Meromorphic functions, general theory

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30D35 Distribution of values, Nevanlinna theory

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30D40 Cluster sets, prime ends, boundary behavior

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30D45 Bloch functions, normal functions, normal families

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Deng, Fangwen Normal family of compositions of holomorphic functions and their high order derivatives. (English summary) **2005e:30060**
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30D50 Blaschke products, bounded mean oscillation, bounded characteristic, bounded functions, functions with positive real part

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30D55 H^p-classes

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30Exx Miscellaneous topics of analysis in the complex domain

30E05 Moment problems, interpolation problems

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30E10 Approximation in the complex domain

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30E15 Asymptotic representations in the complex domain

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30E20 Integration, integrals of Cauchy type, integral representations of analytic functions [see also 45Exx]

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30Fxx Riemann surfaces

30F10 Compact Riemann surfaces and uniformization [see also 14H15, 32G15]

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30F15 Harmonic functions on Riemann surfaces

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30Gxx Generalized function theory

30G06 Non-Archimedean function theory [see also 12J25]; nonstandard function theory [see also 03H05]

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30G12 Finely holomorphic functions and topological function theory

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30G20 Generalizations of Bers or Vekua type (pseudoanalytic, p-analytic, etc.)

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31–03 Historical (must also be assigned at least one classification number from Section 01)

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31–06 Proceedings, conferences, collections, etc.

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31Axx Two-dimensional theory

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31A10 Integral representations, integral operators, integral equations methods

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31A15 Potentials and capacity, harmonic measure, extremal length [see also 30C85]

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31A20 Boundary behavior (theorems of Fatou type, etc.)

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31A25 Boundary value and inverse problems

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31A30 Biharmonic, polyharmonic functions and equations, Poisson's equation

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31A35 Connections with differential equations

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31Bxx Higher-dimensional theory

31B05 Harmonic, subharmonic, superharmonic functions

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31B35 Connections with differential equations

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31Cxx Other generalizations

31C05 Harmonic, subharmonic, superharmonic functions

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31C35 Martin boundary theory [see also 60J50]

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31C40 Fine potential theory

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Nguyen Nhuy (*with* Le Xuan Son) Probability capacities in $\mathbb{R}^d$ and the Choquet integral for capacities. (English summary) **2005h:28006**

31C45 Other generalizations (nonlinear potential theory, etc.)

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Bhattacharya, Tilak On the behaviour of ∞-harmonic functions near isolated points. (English summary) **2005h:31016**
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Keith, Stephen A differentiable structure for metric measure spaces. (English summary) **2005g:46070**
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31D05 Axiomatic potential theory

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Grecea, Valentin On some results concerning the reduite and balayage. (English summary) **2005e:60173**
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32–XX Several complex variables and analytic spaces {For infinite-dimensional holomorphy, see 46G20, 58B12.}

32–01 Instructional exposition (textbooks, tutorial papers, etc.)

Items with secondary classifications in 32–01

Huybrechts, Daniel ★ Complex geometry. **2005h:32052**

32–02 Research exposition (monographs, survey articles)

Items with secondary classifications in 32–02

(Akao, Kazuo) *see* **Kodaira, Kunihiko, 2005h:32030**
Kodaira, Kunihiko ★ Complex manifolds and deformation of complex structures. **2005h:32030**

32–03 Historical (must also be assigned at least one classification number from Section 01)

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(Arbarello, Enrico) *see* **Griffiths, Phillip A., 2005e:01025b**
Björk, Jan-Erik Residues and $\mathcal{D}$-modules. **2005f:32015**
(Clemens, C. Herbert) *see* **Griffiths, Phillip A., 2005e:01025c**
(Cornalba, Maurizio) *see* **Griffiths, Phillip A., 2005e:01025a**
(Green, Mark Lee) *see* **Griffiths, Phillip A., 2005e:01025a**
Griffiths, Phillip A. ★ Selected works of Phillip A. Griffiths with commentary. Part 1. **2005e:01025a**
— ★ Selected works of Phillip A. Griffiths with commentary. Part 2. **2005e:01025b**
— ★ Selected works of Phillip A. Griffiths with commentary. Part 3. **2005e:01025c**
(Harris, Joseph Daniel) *see* **Griffiths, Phillip A., 2005e:01025b**
Malgrange, Bernard Les premiers travaux de Jean-Pierre Ramis. (English and French summaries) [Early works of Jean-Pierre Ramis]
(Morrison, David R.) *see* **Griffiths, Phillip A., 2005e:01025c**
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Collected Works:
Griffiths, Phillip A. *see* **Griffiths, Phillip A., 2005e:01025a; 2005e:01025b** *and* **2005e:01025c**

32–06 Proceedings, conferences, collections, etc.

Abate, Marco (*with* Fornæss, John Erik; Huang, Xiao Jun[1]; Rosay, Jean-Pierre; Tumanov, Alexander) ★ Real methods in complex and CR geometry. **2005c:32001**
(Brasselet, Jean-Paul) *see* **Franco-Japanese singularities, 2005m:32001**
(FitzGerald, Carl H.) *see* **Geometric function theory in several complex variables, 2005i:32001**
Fornæss, John Erik *see* **Abate, Marco et al., 2005c:32001**
(Furushima, Mikio) *see* **Complex analysis in several variables—Memorial Conference of Kiyoshi Oka's Centennial Birthday, 2005c:32002**
(Gaffney, Terence) *see* **Real and complex singularities, 2005d:32001**
(Gong, Sheng) *see* **Geometric function theory in several complex variables, 2005i:32001**
(Hironaka, Heisuke) *see* **Geometric singularity theory, 2005f:32001**
Huang, Xiao Jun[1] *see* **Abate, Marco et al., 2005c:32001**
(Janeczko, Stanisław) *see* **Geometric singularity theory, 2005f:32001**
(Kazama, Hideaki) *see* **Complex analysis in several variables—Memorial Conference of Kiyoshi Oka's Centennial Birthday, 2005c:32002**
(Kodama, Akio) *see* **Complex analysis in several variables—Memorial Conference of Kiyoshi Oka's Centennial Birthday, 2005c:32002**
(Łojasiewicz, Stanisław) *see* **Geometric singularity theory, 2005f:32001**
(Maisonobe, Philippe) *see* **Elements of the theory of geometric differential systems, 2005c:32003**
(Miyajima, Kimio) *see* **Complex analysis in several variables—Memorial Conference of Kiyoshi Oka's Centennial Birthday, 2005c:32002**
(Narváez Macarro, Luis) *see* **Elements of the theory of geometric differential systems, 2005c:32003**
(Noguchi, Junjiro) *see* **Complex analysis in several variables—Memorial Conference of Kiyoshi Oka's Centennial Birthday, 2005c:32002**
(Ohsawa, Takeo) *see* **Complex analysis in several variables—Memorial Conference of Kiyoshi Oka's Centennial Birthday, 2005c:32002**
(Oka, Kiyoshi) *see* **Complex analysis in several variables—Memorial Conference of Kiyoshi Oka's Centennial Birthday, 2005c:32002**
Rosay, Jean-Pierre *see* **Abate, Marco et al., 2005c:32001**
(Ruas, Maria Aparecida Soares) *see* **Real and complex singularities, 2005d:32001**
(Suwa, Tatsuo) *see* **Franco-Japanese singularities, 2005m:32001**
(Tsuji, Hajime) *see* **Complex analysis in several variables—Memorial Conference of Kiyoshi Oka's Centennial Birthday, 2005c:32002**
Tumanov, Alexander *see* **Abate, Marco et al., 2005c:32001**
(Ueda, Tetsuo) *see* **Complex analysis in several variables—Memorial Conference of Kiyoshi Oka's Centennial Birthday, 2005c:32002**
(Zaitsev, Dmitri) *see* **Abate, Marco et al., 2005c:32001**
(Zampieri, Giuseppe) *see* **Abate, Marco et al., 2005c:32001**

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Contemporary Mathematics ★ Real and complex singularities. **2005d:32001**
Éléments de la théorie des systèmes différentiels géométriques ★ Éléments de la théorie des systèmes différentiels géométriques. [Elements of the theory of geometric differential systems] **2005c:32003**
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Franco-Japanese singularities ★ Singularités Franco-Japonaises. [Franco-Japanese singularities] **2005m:32001**
Geometric function theory in several complex variables ★ Geometric function theory in several complex variables. **2005i:32001**
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Lecture Notes in Mathematics *see* **Abate, Marco et al., 2005c:32001**
Marseille-Luminy ★ Singularités Franco-Japonaises. [Franco-Japanese singularities] **2005m:32001**
Martina Franca *see* **Abate, Marco et al., 2005c:32001**
Nara ★ Complex analysis in several variables—Memorial Conference of Kiyoshi Oka's Centennial Birthday. **2005c:32002**
Real and complex singularities ★ Real and complex singularities. **2005d:32001**
Real methods in complex and CR geometry *see* **Abate, Marco et al., 2005c:32001**
São Carlos ★ Real and complex singularities. **2005d:32001**
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Singularités Franco-Japonaises ★ Singularités Franco-Japonaises. [Franco-Japanese singularities] **2005m:32001**

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(Abikoff, William) *see* **In the tradition of Ahlfors and Bers, III, 2005m:30001**
(Agranovsky, Mark L.) *see* **Complex analysis and dynamical systems, 2005f:00010**
Baouendi, Salah (*with* Kohn, Joseph J.; Lu, Qi-keng; Mok, Ngaiming; Yau, Shing-Tung; Yau, Stephen S. T.) Preface [Special issue dedicated to Professor Yum-Tong Siu].
(Chanillo, Sagun) *see* **Geometric analysis of PDE and several complex variables, 2005i:35002**
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(Guillopé, Laurent) *see* **Proceedings: Mathematics Colloquium in Memory of Jean Leray, 2005m:35007**
(Haas, Andrew Howard) *see* **In the tradition of Ahlfors and Bers, III, 2005m:30001**
(Hanges, Nicholas) *see* **Geometric analysis of PDE and several complex variables, 2005i:35002**
(Hounie, Jorge) *see* **Geometric analysis of PDE and several complex variables, 2005i:35002**
(Karp, Lavi) *see* **Complex analysis and dynamical systems, 2005f:00010**
(Kawai, Takahiro) *see* **Microlocal analysis and complex Fourier analysis, 2005a:00020**
Kohn, Joseph J. *see* **Baouendi, Salah et al.**
(Leray, Jean) *see* **Proceedings: Mathematics Colloquium in Memory of Jean Leray, 2005m:35007**
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(Meziani, Abdelhamid) *see* **Geometric analysis of PDE and several complex variables, 2005i:35002**
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(Mond, David) *see* **Real and complex singularities, 2005a:58003**
(Robert, Didier) *see* **Proceedings: Mathematics Colloquium in Memory of Jean Leray, 2005m:35007**
(Saia, Marcelo José) *see* **Real and complex singularities, 2005a:58003**
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(Siu, Yum-Tong) *see* **Baouendi, Salah et al.**
(Treves, François) *see* **Geometric analysis of PDE and several complex variables, 2005i:35002**
Yau, Shing-Tung *see* **Baouendi, Salah et al.**
Yau, Stephen S. T. *see* **Baouendi, Salah et al.**
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Contemporary Mathematics ★ Complex analysis and dynamical systems. **2005f:00010**
— ★ In the tradition of Ahlfors and Bers, III. **2005m:30001**
— ★ Geometric analysis of PDE and several complex variables. **2005i:35002**
Geometric analysis of PDE and several complex variables ★ Geometric analysis of PDE and several complex variables. **2005i:35002**
In the tradition of Ahlfors and Bers, III ★ In the tradition of Ahlfors and Bers, III. **2005m:30001**
Karmiel ★ Complex analysis and dynamical systems. **2005f:00010**
Kyoto ★ Microlocal analysis and complex Fourier analysis. **2005a:00020**
Microlocal analysis and complex Fourier analysis ★ Microlocal analysis and complex Fourier analysis. **2005a:00020**
Nantes ★ Actes des Journées Mathématiques à la Mémoire de Jean Leray. (French) [Proceedings of the Mathematics Colloquium in Memory of Jean Leray] **2005m:35007**
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Mathematics Colloquium in Memory of Jean Leray ★ Actes des Journées Mathématiques à la Mémoire de Jean Leray. (French) [Proceedings of the Mathematics Colloquium in Memory of Jean Leray] **2005m:35007**
Real and complex singularities ★ Real and complex singularities. **2005a:58003**
São Carlos ★ Real and complex singularities. **2005a:58003**

São Paulo ★ Geometric analysis of PDE and several complex variables. **2005i:35002**
Storrs, CT ★ In the tradition of Ahlfors and Bers, III. **2005m:30001**

32Axx Holomorphic functions of several complex variables

32A05 Power series, series of functions

Aĭzenberg, L. A. (*with* Vidras, A.) On the Bohr radius of two classes of holomorphic functions. (Russian. Russian summary) **2005m:32002**
El-Sayed Ahmed, A. On derived and integrated sets of basic sets of polynomials of several complex variables. (English summary) **2005b:32001**
Vaish, Satendra Kumar On the coefficients of entire multiple Dirichlet series of several complex variables. (English summary) **2005g:32001**
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Dahlner, Anders *see* **Bénéteau, Catherine et al., 2005i:30087**
Defant, Andreas (*with* García, Domingo; Maestre, Manuel) Estimates for the first and second Bohr radii of Reinhardt domains. (English summary) **2005e:32001**
García, Domingo *see* **Defant, Andreas et al., 2005e:32001**
Khavinson, Dmitry *see* **Bénéteau, Catherine et al., 2005i:30087**
Maestre, Manuel *see* **Defant, Andreas et al., 2005e:32001**

32A07 Special domains (Reinhardt, Hartogs, circular, tube)

Defant, Andreas (*with* García, Domingo; Maestre, Manuel) Estimates for the first and second Bohr radii of Reinhardt domains. (English summary) **2005e:32001**
Do Duc Thai *see* **Nguyen Quang Dieu, 2005c:32004**
García, Domingo *see* **Defant, Andreas et al., 2005e:32001**
Kruzhilin, N. G. (*with* Soldatkin, P. A.) Affine and holomorphic equivalence of tube domains in $\mathbb{C}^2$. (Russian. Russian summary) **2005h:32001**
Le Mau Hai (*with* Nguyen Quang Dieu; Nguyen Huu Tuyen) Some properties of Reinhardt domains. (English summary) **2005a:32001**
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Porten, Egmont On generalized tube domains over $\mathbb{C}^n$. (English summary) **2005h:32002**
Soldatkin, P. A. *see* **Kruzhilin, N. G., 2005h:32001**

Items with secondary classifications in 32A07

Aĭzenberg, L. A. Remarks on the "asymptotic maximum principle". (English summary) **2005m:32008**
Bui Dac Tac (*with* Le Mau Hai; Nguyen Quang Dieu) The linear invariants $(\underline{DN})$ and $(\overline{\Omega})$ for spaces of germs of holomorphic functions on compact subsets of $\mathbf{C}^n$. (English summary) **2005b:46054**
Carmichael, Richard D. Research problems associated with generalizations of H^r functions and boundary values. (English summary) **2005a:46088**
Ding, Li *see* **Zhao, Xiao-xia et al., 2005g:32013**
Fujita, Keiko Bergman transformation for analytic functionals on some balls. (English summary) **2005e:32002**
Garrigós, Gustavo Poisson-like kernels in tube domains over light-cones. (English summary) **2005a:32002**
Heinzner, Peter (*with* Schützdeller, Patrick) The extended future tube conjecture for $SO(1, n)$. (English summary) **2005d:32040**
Kim, Mijoung Inheritance of noncompactness of the $\overline{\partial}$-Neumann problem. (English summary) **2005h:32092**
Komatsu, Gen The Bergman kernel of Hartogs domains and transformation laws for Sobolev-Bergman kernels. **2005f:32005**
Le Mau Hai *see* **Bui Dac Tac et al., 2005b:46054**
Nguyen Quang Dieu Regularity of certain sets in $\mathbb{C}^n$. (English summary) **2005a:32038**
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Park, Seoung-Hee On hyperbolicity of balanced domains. (English summary) **2005h:32060**
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Zwonek, Włodzimierz *see* **Pflug, Peter, 2005b:32058**

32A10 Holomorphic functions

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32A15 Entire functions

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32A17 Special families of functions

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32A18 Bloch functions, normal functions

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Godula, Janusz (*with* Starkov, Viktor V.) Universal linearly invariant families and Bloch functions in the unit ball. (English summary) **2005d:32003**
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32A19 Normal families of functions, mappings

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Guseĭn-Zade, S. M. *see* **Ebeling, Wolfgang**, **2005c:32031**
Parfyonova, Natalia *see* **Favorov, S. Yu.**, **2005h:32036**
Siersma, Dirk (*with* Tibăr, Mihai) On the vanishing cycles of a meromorphic function on the complement of its poles. (English summary) **2005m:32058**
Tibăr, Mihai *see* **Siersma, Dirk**, **2005m:32058**

32A22 Nevanlinna theory (local); growth estimates; other inequalities {For geometric theory, see 32H25, 32H30.}

Hu, Pei Chu (*with* Yang, Chung-Chun) Nevanlinna theory and Diophantine approximations. (English summary) **2005f:32004**
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32A25 Integral representations; canonical kernels (Szegő, Bergman, etc.)

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Dzebisov, Kh. P. Integral representations of analytic functions in unbounded domains with defining manifolds. (Russian. Russian summary) **2005m:32003**
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Huang, Yu Sheng (*with* Lin, Liang Yu) Koppelman formula with discrete holomorphic kernel and $\overline{\partial}$-equation on a bounded domain. (Chinese. English and Chinese summaries)
— (*with* Lin, Liang Yu) Higher-order linear differential-integral equations on smooth closed orientable manifolds. (Chinese. English and Chinese summaries) **2005g:32004**
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Qiu, Chun Hui (*with* Zhong, Tong-de) Integral formula for differential forms of type (p, q) on complex Finsler manifolds. (English summary) **2005k:32004**
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Ding, Li *see* **Zhao, Xiao-xia et al.**, **2005g:32013**
Fujita, Keiko Bergman transformation for analytic functionals on some balls. (English summary) **2005e:32002**
Henkin, G. M. Abel-Radon transform and applications. (English summary) **2005d:32039**
Jucha, Piotr Bergman completeness of Zalcman type domains. (English summary) **2005b:32025**
Nelaev, A. V. The Riemann boundary value problem for functions of several complex variables holomorphic in multiply circular domains of $\mathbb{C}^n$. (Russian. Russian summary) **2005g:32007**
Xu, Da *see* **Yang, Xiao Lin**
Yang, Xiao Lin (*with* Xu, Da) An inversion technique for the Laplace transform with application to differential equations. (Chinese. English and Chinese summaries)
Yau, Stephen S. T. Global invariants for strongly pseudoconvex varieties with isolated singularities: Bergman functions. (English summary) **2005i:32039**
Yin, Wei Ping *see* **Zhao, Xiao-xia et al.**, **2005g:32013**
Zhao, Xiao-xia (*with* Ding, Li; Yin, Wei Ping) The comparison theorem for Bergman and Kobayashi metrics on Cartan-Hartogs domain of the second type. (English summary) **2005g:32013**

32A26 Integral representations, constructed kernels (e.g. Cauchy, Fantappiè-type kernels)

Andersson, Mats E. L. Residue currents and ideals of holomorphic functions. (English summary) **2005e:32006**
Begehr, Heinrich Representations in polydomains. **2005d:32005**
Chen, Lu Ping[2] *see* **Zhong, Chun Ping**, **2005i:32003**
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Hatziafratis, Telemachos Mittag-Leffler type expansions of $\overline{\partial}$-closed $(0, n-1)$-forms in certain domains in $\mathbb{C}^n$. (English summary) **2005b:32005**
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Hefer, Torsten Boundary values of integral operators. (English summary) **2005b:32006**
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Kytmanov, A. M. (*with* Myslivets, S. G.; Schulze, Bert-Wolfgang; Tarkhanov, Nikolai) Elliptic problems for the Dolbeault complex. (English summary) **2005k:32005**
Lin, Liang Yu (*with* Qiu, Chun Hui; Huang, Yu Sheng) The higher order linear partial differential integral equations on closed smooth manifolds in $\mathbf{C}^N$. (English summary) **2005j:32002**
Michalik, Sławomir The Cauchy kernel for cones. (English summary) **2005d:32006**
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Qiu, Chun Hui (*with* Yao, Zongyuan) Weighted Koppelman-Leray-Norguet formulas on a local q-concave wedge in a complex manifold. (English summary) **2005b:32007**
— *see also* **Lin, Liang Yu et al.**, **2005j:32002**
Schulze, Bert-Wolfgang *see* **Kytmanov, A. M. et al.**, **2005k:32005**
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Yamane, Hideshi Fourier-Ehrenpreis integral formula for harmonic functions. (English summary) **2005d:32007**
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Andersson, Mats E. L. (*with* Passare, Mikael; Sigurdsson, Ragnar) ★ Complex convexity and analytic functionals. **2005a:32011**
Fischer, Bert Nonisotropic Hölder estimates on convex domains of finite type. **2005i:32042**
Hefer, Torsten Extremal bases and Hölder estimates for $\overline{\partial}$ on convex domains of finite type. **2005f:32065**
Passare, Mikael *see* **Andersson, Mats E. L. et al.**, **2005a:32011**
Qiu, Chun Hui *see* **Xing, Su et al.**, **2005m:32073**
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Schneider, Baruch (*with* Shapiro, Michael V.) Some properties of the quaternionic Cauchy-type integral for a piece-wise Liapunov surface of integration. (English summary) **2005j:30066**
Shapiro, Michael V. *see* **Schneider, Baruch**, **2005j:30066**
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32A27 Local theory of residues [see also 32C30]

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Berenstein, Carlos A. Residues: analysis or algebra? **2005d:32008**
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Samuelsson, Håkan A regularisation of the Coleff-Herrera residue current. (English and French summaries) **2005e:32007**
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Beasley, Chris (*with* Witten, Edward) Residues and world-sheet instantons. (English summary) **2005f:81223**

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D'Andrea, Carlos (*with* Khetan, Amit) Macaulay style formulas for toric residues. (English summary) **2005m:14092**

Khetan, Amit *see* **D'Andrea, Carlos, 2005m:14092**

Mazzilli, Emmanuel Division des distributions et applications à l'étude d'idéaux de fonctions holomorphes. (English and French summaries) [Division of distributions and applications to the study of ideals of holomorphic functions] **2005e:32015**

Tovena, Francesca *see* **Abate, Marco et al., 2005g:32044**

Witten, Edward *see* **Beasley, Chris, 2005f:81223**

32A30 Other generalizations of function theory of one complex variable (should also be assigned at least one classification number from Section 30) {For functions of several hypercomplex variables, see 30G35.}

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Zhang, Haï Un système de résultants pour tester la propreté d'une application polynomiale. (French summary) [A system of resultants for testing the properness of a polynomial map] **2005h:14141**

32A35 H^p-spaces, Nevanlinna spaces [see also 32M15, 42B30, 43A85, 46J15]

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Cho, Hong Rae (*with* Kwon, Ern Gun) Embedding of Hardy spaces into weighted Bergman spaces in bounded domains with C^2 boundary. (English summary) **2005i:32004**

Kwon, Ern Gun *see* **Cho, Hong Rae, 2005i:32004**

Nakazi, Takahiko Factorizations of functions in $H^p(T^n)$. (English summary) **2005f:32008**

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Guo, Kunyu (*with* Yang, Rongwei) The core function of submodules over the bidisk. (English summary) **2005m:46048**

— (*with* Hou, Shen Zhao) Quasi-invariant subspaces generated by polynomials with nonzero leading terms. (English summary) **2005d:46107**

Hou, Shen Zhao *see* **Guo, Kunyu, 2005d:46107**

Izuchi, Keiji (*with* Nakazi, Takahiko; Seto, Michio) Backward shift invariant subspaces in the bidisc. III. (English summary) **2005i:47013**

— (*with* Nakazi, Takahiko; Seto, Michio) Backward shift invariant subspaces in the bidisc. II. (English summary) **2005c:47008**

Liu, Tai Shun *see* **Xu, Hui Ming, 2005h:47046**

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Toews, Carl Topological components of the set of composition operators on $H^\infty(B_N)$. (English summary) **2005d:47044**

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Ueki, Sei-Ichiro Composition operators on the Privalov spaces of the unit ball of $\mathbb{C}^n$ (English summary) **2005m:47048**

Xu, Hui Ming (*with* Liu, Tai Shun) Weighted composition operators between Hardy spaces on the unit ball. (English summary) **2005h:47046**

Yang, Rongwei *see* **Guo, Kunyu, 2005m:46048**

32A36 Bergman spaces

Ciatti, Paolo (*with* Ricci, Fulvio) Boundedness of Bergman projectors on Siegel domains over polyhedral cones. **2005b:32009**

Hwang, Stephen (*with* Liu, Yang[3]; Zhang, Genkai) Hilbert spaces of tensor-valued holomorphic functions on the unit ball of $\mathbb{C}^n$. (English summary) **2005c:32008**

Liu, Yang[3] *see* **Hwang, Stephen et al., 2005c:32008**

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Cho, Hong Rae (*with* Kwon, Ern Gun) Embedding of Hardy spaces into weighted Bergman spaces in bounded domains with C^2 boundary. (English summary) **2005i:32004**

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Hu, Zhang-Jian Extended Cesàro operators on Bergman spaces. (English summary) **2005e:47087**

Irgens, Marius A. S. Continuation of L^2-holomorphic functions. (English summary) **2005h:32022**

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Schneider, Georg Hankel operators with antiholomorphic symbols on the Fock space. (English summary) **2005b:47058**

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Stoll, Manfred Dirichlet and Bergman spaces of holomorphic functions on the unit ball of $\mathbb{C}^n$. (English summary) **2005j:32006**

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32A37 Other spaces of holomorphic functions (e.g. bounded mean oscillation (BMOA), vanishing mean oscillation (VMOA)) [see also 46Exx]

Avetisyan, K. L. Continuous inclusions and Bergman type operators in n-harmonic mixed norm spaces on the polydisc. (English summary) **2005b:32010**

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Ding, Hongming The N-widths of Hardy-Sobolev and Bergman-Sobolev spaces of complex variables. (English summary) **2005h:32007**

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Hu, Peng Yan Spaces $M(\mathscr{D}_p)$, $\mathscr{B}_n^p$, and Q_p. (English summary) **2005i:32006**

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32Bxx Local analytic geometry [see also 13–XX and 14–XX]

32B05 Analytic algebras and generalizations, preparation theorems

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32B10 Germs of analytic sets, local parametrization

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32Cxx Analytic spaces

32C05 Real-analytic manifolds, real-analytic spaces [see also 14Pxx, 58A07]

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32C07 Real-analytic sets, complex Nash functions [see also 14P15, 14P20]

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32C11 Complex supergeometry [see also 14A22, 14M30, 58A50]

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32C15 Complex spaces

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Winkelmann, Jörg Non-degenerate maps and sets. (English summary) **2005i:32015**

32C18 Topology of analytic spaces

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32C20 Normal analytic spaces

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32C25 Analytic subsets and submanifolds

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32C30 Integration on analytic sets and spaces, currents {For local theory, see 32A25 or 32A27.}

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32C35 Analytic sheaves and cohomology groups [see also 14Fxx, 18F20, 55N30]

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Hill, C. Denson (*with* Nacinovich, Mauro) Two lemmas on double complexes and their applications to CR cohomology. **2005h:32017**
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32C36 Local cohomology of analytic spaces

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32C37 Duality theorems

Items with secondary classifications in 32C37

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32C38 Sheaves of differential operators and their modules, D-modules [see also 14F10, 16S32, 35A27, 58J15]

Björk, Jan-Erik Residues and $\mathscr{D}$-modules. **2005f:32015**
Briançon, Joël Extensions de Deligne pour les croisements normaux. (English and French summaries) [Deligne extension for normal crossings] **2005f:32016**
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Galina, Esther (*with* Laurent, Yves) $\mathscr{D}$-modules and characters of semisimple Lie groups. (English summary) **2005h:32019**
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32Dxx Analytic continuation

32D05 Domains of holomorphy

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32D10 Envelopes of holomorphy

Irgens, Marius A. S. Continuation of L^2-holomorphic functions. (English summary) **2005h:32022**
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32D15 Continuation of analytic objects

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Bharali, Gautam *see* **Barrett, David E., 2005m:32016**
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Le Hung Son (*with* Nguyen Thanh Van) The Hartogs extension theorem for the multi-regular functions taking values in a Clifford algebra. (English summary) **2005g:30060**
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32D20 Removable singularities

Items with secondary classifications in 32D20

Do Duc Thai (*with* Tran Hue Minh) Generalizations of the theorems of Cartan and Greene-Krantz to complex manifolds. (English summary) **2005i:32013**
Krachni, Mostafa Extension of meromorphic mappings. (English summary) **2005d:32013**
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32D26 Riemann domains

Items with secondary classifications in 32D26

Irgens, Marius A. S. Continuation of L^2-holomorphic functions. (English summary) **2005h:32022**

32Exx Holomorphic convexity

32E05 Holomorphically convex complex spaces, reduction theory

Eyssidieux, Philippe Sur la convexité holomorphe des revêtements linéaires réductifs d'une variété projective algébrique complexe. (English summary) [Holomorphic convexity of reductive linear coverings of a projective complex algebraic variety] **2005f:32020**
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Pflug, Peter (*with* Zwonek, Włodzimierz) Description of all complex geodesics in the symmetrized bidisc. (English summary) **2005m:32022**
Zwonek, Włodzimierz *see* **Pflug, Peter**, 2005m:32022

32E10 Stein spaces, Stein manifolds

Ballico, Edoardo Cousin I condition and Stein spaces. (English summary) **2005h:32026**
— A factorization theorem related to Cousin's second problem on certain Stein manifolds. (English summary)
— Holomorphic embeddings of Stein spaces in infinite-dimensional projective spaces. (English summary) **2005i:32011**
Brenner, Holger A class of counter-examples to the hypersection problem based on forcing equations. (English summary) **2005d:32014**
Fornæss, John Erik Short $\mathbb{C}^k$. **2005h:32027**
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— Holomorphic submersions from Stein manifolds. (English and French summaries) **2005m:32019**
Il'yashenko, Yuliĭ S. (*with* Shcherbakov, A. A.) Remarks on the paper: "Covering manifolds for analytic families of leaves of foliations by analytic curves" [Topol. Methods Nonlinear Anal. **11** (1998), no. 2, 361–373; MR1659438 (2000a:32019)] by Ilyashenko. **2005d:32015**
Pouryayevali, M. R. Schlicht balls on Stein manifolds. (English summary) **2005g:32010**
Shcherbakov, A. A. *see* **Il'yashenko, Yuliĭ S.**, 2005d:32015

Items with secondary classifications in 32E10

Abe, Makoto² (*with* Tabata, Seiji) Montel domains and equicontinuity domains. (English summary) **2005b:32002**
Akhiezer, D. N. (*with* Heinzner, Peter) Spherical Stein spaces. (English summary) **2005j:32025**
Ballico, Edoardo Complex Stein manifolds with an anti-holomorphic involution. (English summary) **2005f:32040**
— Algebraicity criteria for coherent analytic sheaves on one-dimensional Stein spaces. (English summary)
— Holomorphic vector bundles and proper holomorphic maps. (English summary)
— Rings of holomorphic functions and UFD. (English summary)
Chen, Bo-Yong (*with* Zhang, Jinhao) The Serre problem on certain bounded domains. (English summary) **2005g:32032**
Drinovec Drnovšek, Barbara Proper discs in Stein manifolds avoiding complete pluripolar sets. **2005h:32042**
Heinzner, Peter *see* **Akhiezer, D. N.**, 2005j:32025
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Qiu, Chun Hui (*with* Yao, Zongyuan) Weighted Koppelman-Leray-Norguet formulas on a local q-concave wedge in a complex manifold. (English summary) **2005b:32007**
Tabata, Seiji *see* **Abe, Makoto²**, 2005b:32002
Yao, Zongyuan *see* **Qiu, Chun Hui**, 2005b:32007
Zhang, Jinhao *see* **Chen, Bo-Yong**, 2005g:32032
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32E20 Polynomial convexity

Bou Attour, Latifa (*with* Faraut, Jacques) Enveloppes polynômiales d'ensembles compacts invariants. (English and French summaries) [Polynomial hulls of invariant compact sets] **2005d:32016**
Dinh, Tien-Cuong (*with* Lawrence, Mark G.) Polynomial hulls and positive currents. (English and French summaries) **2005b:32022**
Faraut, Jacques *see* **Bou Attour, Latifa**, 2005d:32016
Jöricke, Burglind A Cantor set in the unit sphere in $\mathbb{C}^2$ with large polynomial hull. **2005k:32011**
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Shcherbina, N. V. (*with* Tomassini, Giuseppe) Semilocal Levi-flat extensions. (Russian. Russian summary) **2005c:32017**
Slodkowski, Zbigniew Polynomially convex hulls of families of arcs. (English summary) **2005e:32021**
Tomassini, Giuseppe *see* **Shcherbina, N. V.**, 2005c:32017
Whittlesey, Marshall A. Polynomial hulls and an optimization problem. (English summary) **2005c:32018**

Items with secondary classifications in 32E20

Kaup, Wilhelm Bounded symmetric domains and polynomial convexity. (English summary) **2005i:32021**

32E30 Holomorphic and polynomial approximation, Runge pairs, interpolation

Alpay, Daniel (*with* Shapiro, Michael V.) Gleason's problem and tangential homogeneous interpolation for hyperholomorphic quaternionic functions. (English summary) **2005f:32021**
Anderson, John T. (*with* Izzo, Alexander J.; Wermer, John) Rational approximation on the unit sphere in $\mathbf{C}^2$. **2005b:32023**
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Herrera Torres, Alien (*with* Presa, Arturo) Approximation properties of holomorphic pairs of differential forms. (English summary) **2005k:32012**
Izzo, Alexander J. *see* **Anderson, John T. et al.**, 2005b:32023 *and* 2005d:32017
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Items with secondary classifications in 32E30

Abe, Makoto² (*with* Tabata, Seiji) Montel domains and equicontinuity domains. (English summary) **2005b:32002**
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Ball, Joseph A. (*with* Bolotnikov, Vladimir) Realization and interpolation for Schur-Agler-class functions on domains with matrix polynomial defining function in $\mathbb{C}^n$. (English summary) **2005f:47040**
Ballico, Edoardo Interpolation for discrete subsets of domains of $\mathbf{C}^N$. (English summary) **2005d:32033**
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Bolotnikov, Vladimir *see* **Ball, Joseph A.**, 2005f:47040
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Forstnerič, Franc Holomorphic submersions from Stein manifolds. (English and French summaries) **2005m:32019**
Josefson, Bengt Approximation of holomorphic functions in certain Banach spaces. (English summary) **2005e:46074**
Logvinenko, Vladimir (*with* Nazarova, N.) Bernstein-type theorems and uniqueness theorems. (English and Ukrainian summaries) **2005c:32005**
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32E40 The Levi problem

Matsumoto, Kazuko Some geometric properties of Levi form of distance to real hypersurfaces in $\mathbb{C}^2$. **2005j:32011**

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Brenner, Holger A class of counter-examples to the hypersection problem based on forcing equations. (English summary) **2005d:32014**
Fornæss, John Erik Short $\mathbb{C}^k$. **2005h:32027**

32E99 None of the above, but in this section

Kan, Su-Jen Recent development on Grauert domains. **2005m:32021**
Katô, Kazuko Construction de la solution bornée du second problème de Cousin dans le polydisque de $\mathbb{C}^n$ $(n \geq 3)$. (French summary) [Construction of a bounded solution of the second Cousin problem in the polydisc of $\mathbb{C}^n$ $(n \geq 3)$] **2005a:32010**

Items with secondary classifications in 32E99

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32Fxx Geometric convexity

32F10 q-convexity, q-concavity

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32G05 Deformations of complex structures [see also 13D10, 16S80, 58H10, 58H15]

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32G07 Deformations of special (e.g. CR) structures

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32G10 Deformations of submanifolds and subspaces

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32G34 Moduli and deformations for ordinary differential equations (e.g. Khnizhnik-Zamolodchikov equation) [see also 34Mxx]

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Jaskólski, Zbigniew *see* **Hadasz, Leszek**, **2005g:81276**
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32G81 Applications to physics

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Murri, Riccardo *see* **Fiorenza, Domenico**, **2005h:14027**
Nakayama, Yu *see* **Bertoldi, Gaetano et al.**, **2005j:81176**
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Phong, D. H. *see* **Aoki, Kenichiro et al.**, **2005g:81221**
Santillan, Osvaldo P. *see* **Ketov, Sergei V. et al.**, **2005f:81189**

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32Hxx Holomorphic mappings and correspondences

32H02 Holomorphic mappings, (holomorphic) embeddings and related questions

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Curt, Paula (*with* Kohr, Gabriela) Properties of subordination chains and transition mappings in several complex variables. (English summary) **2005h:32035**
Do Duc Thai (*with* Tran Hue Minh) Generalizations of the theorems of Cartan and Greene-Krantz to complex manifolds. (English summary) **2005i:32013**
Dovbush, Piotr V. On the existence of $\mathscr{K}$-admissible limits of holomorphic maps. (English summary) **2005b:32033**
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Gong, Sheng (*with* Liu, Tai Shun) The decomposition theorem for the family of complete quasi-convex mappings. (English summary) **2005h:32037**
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— *see also* **Curt, Paula, 2005h:32035** *and* **Hamada, Hidetaka, 2005h:32038**
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Liu, Hao[1] The new characteristics for spirallike mappings of type α on bounded balanced pseudoconvex domains. (English summary) **2005j:32015**
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Parfyonova, Natalia *see* **Favorov, S. Yu., 2005h:32036**
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Suffridge, Ted J. Holomorphic mappings of domains in $\mathbb{C}^N$ onto convex domains. (English summary) **2005j:32016**
— *see also* **Muir, Jerry R., Jr., 2005f:32028**
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Do Duc Thai *see* **Pham Ngoc Mai et al., 2005i:32010**
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Forstnerič, Franc Holomorphic submersions from Stein manifolds. (English and French summaries) **2005m:32019**
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Huang, Xiao Jun[1] (*with* Ji, Shanyu; Xu, De Kang) Several results for holomorphic mappings from $\mathbf{B}^n$ into $\mathbf{B}^N$. **2005k:32021**
Ji, Shanyu *see* **Huang, Xiao Jun[1] et al., 2005k:32021**
Kohr, Gabriela *see* **Hamada, Hidetaka et al., 2005b:32072** *and* **Curt, Paula, 2005c:32047**
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Le Tai Thu *see* **Pham Ngoc Mai et al., 2005i:32010**
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Nechita, Veronica Theory of superordinations for several complex variables. (English summary) **2005j:32004**
Pham Ngoc Mai (*with* Do Duc Thai; Le Tai Thu) The theorem of Forelli for holomorphic mappings into complex spaces. (English summary) **2005i:32010**
Rosay, Jean-Pierre Discs in complex manifolds with no bounded plurisubharmonic functions. (English summary) **2005a:32036**
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Xu, De Kang *see* **Huang, Xiao Jun[1] et al., 2005k:32021**
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32H04 Meromorphic mappings

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Ballico, Edoardo Covering maps of bimeromorphically equivalent compact complex surfaces. (English summary)

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Krachni, Mostafa Extension of meromorphic mappings. (English summary) **2005d:32013**
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32H12 Boundary uniqueness of mappings

Items with secondary classifications in 32H12

Ebenfelt, Peter (*with* Lamel, Bernhard) Finite jet determination of CR embeddings. (English summary) **2005b:32068**
Lamel, Bernhard *see* **Ebenfelt, Peter, 2005b:32068**

32H25 Picard-type theorems and generalizations {For function-theoretic properties, see 32A22.}

Cherry, William A. (*with* Ru, Min) Rigid analytic Picard theorems. (English summary) **2005d:32022**
Ru, Min *see* **Cherry, William A., 2005d:32022**
Toda, Nobushige On the deficiency of holomorphic curves with maximal deficiency sum. II. (English summary) **2005d:32023**
— A survey of extremal holomorphic curves for the truncated defect relation. (English summary) **2005c:32023**
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32H30 Value distribution theory in higher dimensions {For function-theoretic properties, see 32A22.}

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Noguchi, Junjiro Intersection multiplicities of holomorphic and algebraic curves with divisors. (English summary) **2005f:32030**
Shirosaki, Manabu Hypersurfaces and uniqueness of holomorphic mappings. (English summary) **2005f:32031**
Toda, Nobushige Holomorphic curves with an infinite number of deficiencies. (English summary) **2005d:32025**
— On a holomorphic curve extremal for the defect relation. (English summary) **2005h:32041**
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Yang, Chung-Chun *see* **Hu, Pei Chu, 2005f:32004**

32H35 Proper mappings, finiteness theorems

Chen, Zhi Hua Proper holomorphic mappings between some generalized Hartogs triangles. (English summary) **2005j:32018**
— (*with* Xu, De Kang) Rigidity of proper self-mapping on some kinds of generalized Hartogs triangle [MR1910972 (2003e:32031)]. (Chinese. English and Chinese summaries)
Dini, Gilberto (*with* Primicerio, Angela Selvaggi) Localization of automorphisms of some unbounded Levi degenerate algebraic hypersurfaces in $\mathbb{C}^n$. (English summary) **2005m:32030**

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Edigarian, Armen Proper holomorphic self-mappings of the symmetrized bidisc. (English summary) **2005k:32019**
Hamada, Hidetaka Rational proper holomorphic maps from $\mathbf{B}^n$ into $\mathbf{B}^{2n}$. (English summary) **2005k:32020**
Huang, Xiao Jun[1] (*with* Ji, Shanyu; Xu, De Kang) Several results for holomorphic mappings from $\mathbf{B}^n$ into $\mathbf{B}^N$. **2005k:32021**
Ji, Shanyu (*with* Xu, De Kang) Maps between $\mathbf{B}^n$ and $\mathbf{B}^N$ with geometric rank $k_0 \leq n-2$ and minimum N. **2005m:32031**
— *see also* **Huang, Xiao Jun[1] et al., 2005k:32021**
Ourimi, Nabil On proper holomorphic mappings between rigid polynomial domains in $\mathbb{C}^{n+1}$. (English summary) **2005i:32016**
Primicerio, Angela Selvaggi *see* **Dini, Gilberto, 2005m:32030**
Shafikov, Rasul On boundary regularity of proper holomorphic mappings. (English summary) **2005a:32016**
— (*with* Verma, Kaushal) A local extension theorem for proper holomorphic mappings in $\mathbb{C}^2$. (English summary) **2005e:32029**
Tu, Zhen-Han Rigidity of proper holomorphic mappings between bounded symmetric domains. **2005m:32032**
Verma, Kaushal *see* **Shafikov, Rasul, 2005e:32029**
Xu, De Kang *see* **Huang, Xiao Jun[1] et al., 2005k:32021**; **Ji, Shanyu, 2005m:32031** *and* **Chen, Zhi Hua**

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Diederich, Klas (*with* Pinchuk, S. I.) Analytic sets extending the graphs of holomorphic mappings. (English summary) **2005d:32027**
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Pflug, Peter *see* **Nikolov, Nikolai Marinov, 2005h:32039**
Pinchuk, S. I. *see* **Diederich, Klas, 2005d:32027**

32H40 Boundary regularity of mappings

Abate, Marco Angular derivatives in several complex variables. **2005g:32019**
Diederich, Klas (*with* Pinchuk, S. I.) Analytic sets extending the graphs of holomorphic mappings. (English summary) **2005d:32027**
Pinchuk, S. I. *see* **Diederich, Klas, 2005d:32027**
Verma, Kaushal A note on uniform extendability of automorphisms. (English summary) **2005e:32030**

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Carvalho dos Santos, L. A. (*with* Hounie, Jorge) Estimates for the Poisson kernel and Hardy spaces on compact manifolds. (English summary) **2005j:46014**
Chen, Zhi Hua (*with* Xu, De Kang) Rigidity of proper self-mapping on some kinds of generalized Hartogs triangle [MR1910972 (2003e:32031)]. (Chinese. English and Chinese summaries)
Hounie, Jorge *see* **Carvalho dos Santos, L. A., 2005j:46014**
Shafikov, Rasul On boundary regularity of proper holomorphic mappings. (English summary) **2005a:32016**
— (*with* Verma, Kaushal) A local extension theorem for proper holomorphic mappings in $\mathbb{C}^2$. (English summary) **2005e:32029**
Verma, Kaushal *see* **Shafikov, Rasul, 2005e:32029**
Xu, De Kang *see* **Chen, Zhi Hua**

32H50 Iteration problems

Abate, Marco (*with* Tovena, Francesca) Parabolic curves in $\mathbb{C}^3$ [MR1981266 (2004c:32035)]. (*see* **2005d:00015**)
Belkhchicha, Larbi (*with* Vigué, Jean-Pierre) Itérées d'une famille analytique d'applications holomorphes et points fixes sur un produit. (English and Italian summaries) [Iterates of an analytic family of holomorphic mappings and fixed points on a product] **2005d:32028**
Bernal-González, Luis Universal entire functions for affine endomorphisms of $\mathbb{C}^N$. (English summary) **2005m:32033**
Bracci, Filippo Local dynamics of holomorphic diffeomorphisms. (English and Italian summaries) **2005m:32034**
— (*with* Suwa, Tatsuo) Residues for singular pairs and dynamics of biholomorphic maps of singular surfaces. (English summary) **2005e:32031**
Briend, Jean-Yves (*with* Cantat, Serge; Shishikura, Mitsuhiro) Linearity of the exceptional set for maps of $\mathbf{P}_k(\mathbb{C})$. (English summary) **2005i:32017**
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Dinh, Tien-Cuong (*with* Sibony, Nessim) Groupes commutatifs d'automorphismes d'une variété kählérienne compacte. (English and French summaries) [Commutative groups of automorphisms of a compact Kähler manifold] **2005g:32020**
Elin, Mark (*with* Shoikhet, David) Semigroups of holomorphic mappings with boundary fixed points and spirallike mappings. (English summary) **2005k:32022**
Favre, Charles Equidistribution problems in holomorphic dynamics in $\mathbb{P}^2$. **2005e:32032**
Fornæss, John Erik (*with* Stensønes, Berit) Stable manifolds of holomorphic hyperbolic maps. (English summary) **2005h:32043**
Frosini, Chiara Dynamics on bounded domains. **2005k:32023**
Guedj, Vincent Decay of volumes under iteration of meromorphic mappings. (English and French summaries) **2005m:32035**
Maegawa, Kazutoshi Fatou sets for rational maps of $\mathbb{P}^k$. **2005d:32029**
Shishikura, Mitsuhiro *see* **Briend, Jean-Yves et al., 2005i:32017**
Shoikhet, David *see* **Elin, Mark, 2005k:32022**
Sibony, Nessim *see* **Dinh, Tien-Cuong, 2005g:32020**
Stensønes, Berit *see* **Fornæss, John Erik, 2005h:32043**
Suwa, Tatsuo *see* **Bracci, Filippo, 2005e:32031**
Tovena, Francesca *see* **Abate, Marco, (2005d:00015)**
Ueda, Tetsuo Fixed points of polynomial automorphisms of $\mathbf{C}^n$. (English summary) **2005e:32033**
Vigué, Jean-Pierre *see* **Belkhchicha, Larbi, 2005d:32028**

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Abate, Marco Discrete local holomorphic dynamics. **2005i:37049**
Beardon, A. F. (*with* Carne, T. K.; Minda, David; Ng, Tuen-Wai) Random iteration of analytic maps. (English summary) **2005b:37086**
Berteloot, François (*with* Mayer, Volker) ★ Rudiments de dynamique holomorphe. (French. English and French summaries) [Rudiments of holomorphic dynamics] **2005b:37087**
Bracci, Filippo (*with* Molino, Laura) The dynamics near quasi-parabolic fixed points of holomorphic diffeomorphisms in $\mathbb{C}^2$. (English summary) **2005c:37082**
Carne, T. K. *see* **Beardon, A. F. et al., 2005b:37086**
Coman, Dan (*with* Guedj, Vincent) Invariant currents and dynamical Lelong numbers. (English summary) **2005d:32056**
Dinh, Tien-Cuong (*with* Sibony, Nessim) Dynamique des applications polynomiales semi-régulières. (English summary) [Dynamics of semiregular polynomial maps] **2005g:37083**
Dujardin, Romain Sur l'intersection des courants laminaires. (English summary) [The intersection of laminar currents] **2005e:32054**
Fornæss, John Erik Real methods in complex dynamics. **2005f:37091**
Gromov, Mikhael L. On the entropy of holomorphic maps. **2005h:37097**
Gronau, Detlef (*with* Schwaiger, Jens) An estimate for the iterates of analytic functions in several variables with fixed point 0. (English summary) **2005g:39040**
Guedj, Vincent Dynamics of quadratic polynomial mappings of $\mathbb{C}^2$. **2005f:37093**
— *see also* **Coman, Dan, 2005d:32056**
Jupiter, Daniel (*with* Lilov, Krastio) Invariant nonrecurrent Fatou components of automorphisms of $\mathbb{C}^2$. (English summary) **2005g:37085**
Lilov, Krastio *see* **Jupiter, Daniel, 2005g:37085**
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Oberste-Vorth, Ralph W. Conjugacy invariants for solenoidal mappings. **2005h:37093**
Robertson, John W. The geometry of some natural conjugacies in $\mathbb{C}^n$ dynamics. (English summary) **2005k:37099**
Schwaiger, Jens *see* **Gronau, Detlef, 2005g:39040**
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32H99 None of the above, but in this section

Graham, Ian R. (*with* Kohr, Gabriela; Kohr, Mirela) Basic properties of Loewner chains in several complex variables. (English summary) **2005k:32024**
Kohr, Gabriela *see* **Graham, Ian R. et al., 2005k:32024**
Kohr, Mirela *see* **Graham, Ian R. et al., 2005k:32024**

32Jxx Compact analytic spaces {For Riemann surfaces, see 14Hxx, 30Fxx; for algebraic theory, see 14Jxx.}

32J05 Compactification of analytic spaces

Abe, Makoto[2] (*with* Furushima, Mikio; Shima, Tadashi) Analytic compactifications of $\mathbb{C}^2/\mathbb{Z}_n$. **2005j:32019**
Furushima, Mikio *see* **Abe, Makoto[2] et al., 2005j:32019**
Shima, Tadashi *see* **Abe, Makoto[2] et al., 2005j:32019**

32J10 Algebraic dependence theorems

Items with secondary classifications in 32J10

Hill, C. Denson (*with* Nacinovich, Mauro) Fields of CR meromorphic functions. (English summary) **2005j:32039**
Nacinovich, Mauro *see* **Hill, C. Denson, 2005j:32039**

32J15 Compact surfaces

Ballico, Edoardo Iterated covering maps in families of compact complex surfaces. (English summary)
Halanay, Andrei D. On the cohomological Brauer group of some Kodaira surfaces. (English summary) **2005g:32021**

Items with secondary classifications in 32J15

Abe, Makoto[2] (*with* Furushima, Mikio; Shima, Tadashi) Analytic compactifications of $\mathbb{C}^2/\mathbb{Z}_n$. **2005j:32019**
Ballico, Edoardo Covering maps of bimeromorphically equivalent compact complex surfaces. (English summary)
Catanese, Fabrizio Moduli spaces of surfaces and real structures. (English summary) **2005d:14053**
Degtyarëv, Aleksandr Igorevich (*with* Itenberg, Ilia; Kharlamov, Viatcheslav) Finiteness and quasi-simplicity for symmetric $K3$-surfaces. (English summary) **2005d:14055**
Furushima, Mikio *see* **Abe, Makoto[2] et al., 2005j:32019**
Itenberg, Ilia *see* **Degtyarëv, Aleksandr Igorevich et al., 2005d:14055**

Kharlamov, Viatcheslav *see* **Degtyarëv, Aleksandr Igorevich et al., 2005d:14055**
Klingler, Bruno Sur la rigidité de certains groupes fondamentaux, l'arithméticité des réseaux hyperboliques complexes, et les "faux plans projectifs". (English summary) [Rigidity of certain fundamental groups, arithmeticity of complex hyperbolic lattices, and "fake projective planes"] **2005f:22014**
Shima, Tadashi *see* **Abe, Makoto[2] et al., 2005j:32019**
Slapar, Marko Real surfaces in elliptic surfaces. (English summary) **2005k:32050**

32J17 Compact 3-folds

Items with secondary classifications in 32J17

Fujiki, Akira Twistor spaces of algebraic dimension two associated to a connected sum of projective planes. (English summary) **2005g:32025**

32J18 Compact n-folds

Boucksom, Sébastien Divisorial Zariski decompositions on compact complex manifolds. (English and French summaries) **2005i:32018**
Goldstein, Edward (*with* Prokushkin, S. F.) Geometric model for complex non-Kähler manifolds with SU(3) structure. (English summary) **2005g:32022**
Prokushkin, S. F. *see* **Goldstein, Edward, 2005g:32022**
Winkelmann, Jörg On manifolds with trivial logarithmic tangent bundle. **2005g:32023**

Items with secondary classifications in 32J18

Barlet, Daniel (*with* Magnússon, Jon) Integration of meromorphic cohomology classes and applications. (English summary) **2005m:32024**
Heier, Gordon Effective finiteness theorems for maps between canonically polarized compact complex manifolds. (English summary) **2005k:14126**
Liu, Wei Ming (*with* Zhou, Xiang Yu) Line bundles on non-primary Hopf manifolds. (English summary) **2005m:32039**
— *see also* **Zhou, Xiang Yu, 2005j:32023**
Magnússon, Jon *see* **Barlet, Daniel, 2005m:32024**
Zhou, Xiang Yu (*with* Liu, Wei Ming) Holomorphic vector bundle on Hopf manifolds with abelian fundamental groups. (English summary) **2005j:32023**
— A remark on the Douady sequence for non-primary Hopf manifolds. **2005m:32041**
— *see also* **Liu, Wei Ming, 2005m:32039**

32J25 Transcendental methods of algebraic geometry [see also 14C30]

Mok, Ngaiming Negativity of curvature on spaces parametrizing Hodge decompositions of reduced first cohomology groups. **2005b:32034**
(Schneps, Leila) *see* **Voisin, Claire, 2005c:32024b**
Simpson, Carlos The construction problem in Kähler geometry. **2005h:32044**
Siu, Yum-Tong Invariance of plurigenera and torsion-freeness of direct image sheaves of pluricanonical bundles. (English summary) **2005j:32020**
Voisin, Claire ★ Théorie de Hodge et géométrie algébrique complexe. (French) [Hodge theory and complex algebraic geometry] **2005c:32024a**
— ★ Hodge theory and complex algebraic geometry. II. **2005c:32024b**

Items with secondary classifications in 32J25

Buchweitz, Ragnar-Olaf (*with* Flenner, Hubert) A semiregularity map for modules and applications to deformations. (English summary) **2005f:14017**
Carlson, James A. (*with* Toledo, Domingo) Generic integral manifolds for weight two period domains. (English summary) **2005b:14023**
Eyssidieux, Philippe Sur la convexité holomorphe des revêtements linéaires réductifs d'une variété projective algébrique complexe. (English summary) [Holomorphic convexity of reductive linear coverings of a projective complex algebraic variety] **2005f:32020**
Flenner, Hubert *see* **Buchweitz, Ragnar-Olaf, 2005f:14017**
Fujiki, Akira Twistor spaces of algebraic dimension two associated to a connected sum of projective planes. (English summary) **2005g:32025**
Griffiths, Phillip A. Hodge theory and geometry. (English summary) **2005g:14023**
Hertling, Claus tt^* geometry, Frobenius manifolds, their connections, and the construction for singularities. (English summary) **2005f:32049**
— (*with* Manin, Yuriĭ Ivanovich) Unfoldings of meromorphic connections and a construction of Frobenius manifolds. **2005k:32013**
Huybrechts, Daniel ★ Complex geometry. **2005h:32052**
Jost, Jürgen (*with* Xin, Yuan Long) The first L^2-Betti number of certain homogeneous spaces, including classifying spaces for variations of Hodge structures. **2005j:58028**
Manin, Yuriĭ Ivanovich *see* **Hertling, Claus, 2005k:32013**
Oguiso, Keiji (*with* Peternell, Thomas) The dual Kähler cone of compact Kähler threefolds. **2005j:32021**
Peternell, Thomas *see* **Oguiso, Keiji, 2005j:32021**
Toledo, Domingo *see* **Carlson, James A., 2005b:14023**
Tsuji, Hajime Subadjunction theorem. (English summary) **2005j:32010**
Verbitsky, Misha Coherent sheaves on generic compact tori. (English summary) **2005m:32040**
Voisin, Claire On the homotopy types of compact Kähler and complex projective manifolds. **2005e:32034**
Xin, Yuan Long *see* **Jost, Jürgen, 2005j:58028**

32J27 Compact Kähler manifolds: generalizations, classification

Brudnyi, Alexander Solvable matrix representations of Kähler groups. (English summary) **2005c:32025**
Campana, Frédéric Orbifoldes à première classe de Chern nulle. (English summary) [Orbifolds of zero first Chern class] **2005i:32019**
Demailly, Jean-Pierre (*with* Paun, Mihai) Numerical characterization of the Kähler cone of a compact Kähler manifold. (English summary) **2005i:32020**
Deraux, Martin On the universal cover of certain exotic Kähler surfaces of negative curvature. (English summary) **2005m:32036**
Oguiso, Keiji (*with* Peternell, Thomas) The dual Kähler cone of compact Kähler threefolds. **2005j:32021**
Paun, Mihai *see* **Demailly, Jean-Pierre, 2005i:32020**
Peternell, Thomas *see* **Oguiso, Keiji, 2005j:32021**
Verbitsky, Misha Wirtinger numbers and holomorphic symplectic immersions. (English summary) **2005m:32037**
Voisin, Claire On the homotopy types of compact Kähler and complex projective manifolds. **2005e:32034**

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Biswas, Indranil (*with* Subramanian, Swaminathan) Numerically flat principal bundles. (English summary) **2005m:32038**
Boyer, Charles P. (*with* Galicki, Krzysztof; Nakamaye, Michael) On positive Sasakian geometry. (English summary) **2005a:53072**
Demailly, Jean-Pierre (*with* Peternell, Thomas) A Kawamata-Viehweg vanishing theorem on compact Kähler manifolds. (English summary) **2005f:32033**
Dinh, Tien-Cuong (*with* Sibony, Nessim) Groupes commutatifs d'automorphismes d'une variété kählérienne compacte. (English and French summaries) [Commutative groups of automorphisms of a compact Kähler manifold] **2005g:32020**
Galicki, Krzysztof *see* **Boyer, Charles P. et al., 2005a:53072**
Gori, Anna (*with* Podestà, Fabio) A note on the moment map on compact Kähler manifolds. (English summary) **2005f:53146**
— (*with* Podestà, Fabio) Two-orbit Kähler manifolds and Morse theory. (English summary) **2005j:32029**
Manetti, Marco Cohomological constraint on deformations of compact Kähler manifolds. (English summary) **2005e:32023**
Mok, Ngaiming Negativity of curvature on spaces parametrizing Hodge decompositions of reduced first cohomology groups. **2005b:32034**
Nakamaye, Michael *see* **Boyer, Charles P. et al., 2005a:53072**
Nieper-Wißkirchen, Marc A. ★ Chern numbers and Rozansky-Witten invariants of compact hyper-Kähler manifolds. **2005h:53070**
Peternell, Thomas *see* **Demailly, Jean-Pierre, 2005f:32033**
Phong, D. H. (*with* Sturm, Jacob) Scalar curvature, moment maps, and the Deligne pairing. (English summary) **2005b:53137**
Podestà, Fabio *see* **Gori, Anna, 2005f:53146** *and* **2005j:32029**
Sibony, Nessim *see* **Dinh, Tien-Cuong, 2005g:32020**
Sturm, Jacob *see* **Phong, D. H., 2005b:53137**
Subramanian, Swaminathan *see* **Biswas, Indranil, 2005m:32038**
Teleman, Andrei Dumitru Symplectic stability, analytic stability in non-algebraic complex geometry. (English summary) **2005b:53138**
To, Wing-Keung (*with* Weng, Lin) L^2-metrics, projective flatness and families of polarized abelian varieties. (English summary) **2005j:32013**
Weng, Lin *see* **To, Wing-Keung, 2005j:32013**

32J81 Applications to physics

Items with secondary classifications in 32J81

Andreas, Björn (*with* Hernández Ruipérez, Daniel) Comments on $N = 1$ heterotic string vacua. (English summary) **2005g:81220**
Ashok, Sujay K. (*with* Douglas, Michael R.) Counting flux vacua. (English summary) **2005h:83215**
Becker, Katrin (*with* Becker, Melanie; Dasgupta, Keshav; Green, Paul S.; Sharpe, Eric) Compactifications of heterotic strings of non-Kähler complex manifolds. II. (English summary) **2005h:81258**
Becker, Melanie *see* **Becker, Katrin et al., 2005h:81258**
Dasgupta, Keshav *see* **Becker, Katrin et al., 2005h:81258**
Diaconescu, Duiliu-Emanuel (*with* Florea, Bogdan; Grassi, Antonella) Geometric transitions and open string instantons. (English summary) **2005a:81205**
— (*with* Florea, Bogdan; Grassi, Antonella) Geometric transitions, del Pezzo surfaces and open string instantons. (English summary) **2005a:81206**
Douglas, Michael R. *see* **Ashok, Sujay K., 2005h:83215**
Easson, Damien A. Brane gases on $K3$ and Calabi-Yau manifolds. (English summary) **2005d:83134**
Florea, Bogdan *see* **Diaconescu, Duiliu-Emanuel et al., 2005a:81205** *and* **2005a:81206**
Grassi, Antonella *see* **Diaconescu, Duiliu-Emanuel et al., 2005a:81205** *and* **2005a:81206**
Green, Paul S. *see* **Becker, Katrin et al., 2005h:81258**
Hernández Ruipérez, Daniel *see* **Andreas, Björn, 2005g:81220**
Katz, Sheldon H. (*with* Sharpe, Eric) D-branes, open string vertex operators, and Ext groups. (English summary) **2005f:81186**
Misra, Aalok An $\mathcal{N} = 1$ triality by spectrum matching. (English summary) **2005c:81174**
Sharpe, Eric *see* **Katz, Sheldon H., 2005f:81186** *and* **Becker, Katrin et al., 2005h:81258**
Yang, Fu-Zhong F-theory description of 3-string junction. (English summary) **2005b:81166**

32Kxx Generalizations of analytic spaces (should also be assigned at least one other classification number from Section 32 describing the type of problem)

32K05 Banach analytic spaces [see also 58Bxx]

Ballico, Edoardo Zero-dimensional subschemes and discrete subsets of infinite-dimensional projective spaces. (English summary) **2005b:32035**
— Infinite-dimensionality of cohomology groups of infinite-dimensional complex spaces. (English summary) **2005d:32030**

— Direct images of holomorphic vector bundles on $\mathbf{P}^k$-projections on infinite-dimensional complex spaces. (English summary) **2005c:32026**
— Holomorphic vector bundles with infinite-dimensional fibers on compact Riemann surfaces and compact complex spaces. (English summary) **2005b:32036**
— Complements of complete intersections in infinite-dimensional complex projective spaces. (English summary) **2005d:32031**
— On the infinite-dimensional holomorphic structure on topological bundles. (English and French summaries) **2005b:32037**
— Projective bundles on infinite-dimensional complex spaces. (English summary) **2005d:32032**
— Interpolation for discrete subsets of domains of $\mathbf{C}^N$. (English summary) **2005d:32033**
— On the infinite-dimensional holomorphic structure on topological bundles with fibers isomorphic to $\mathbf{C}^{(\mathbf{N})}$. (English summary) **2005d:32034**
— Uniformity of principal bundles on infinite-dimensional flag manifolds. (English summary)
— Infinitesimal neighborhoods of infinite-dimensional complex projective spaces. (English summary) **2005d:32035**
Patyi, Imre Analytic cohomology of complete intersections in a Banach space. (English and French summaries) **2005e:32035**

Items with secondary classifications in 32K05

Ballico, Edoardo Topologically trivial holomorphic vector bundles on infinite-dimensional projective varieties. (English summary) **2005j:32022a**
— Topologically trivial holomorphic vector bundles on infinite-dimensional projective varieties. (English summary) **2005j:32022b**
— Holomorphic vector bundles on quadric hypersurfaces of infinite-dimensional projective spaces. (English summary) **2005h:32045**
Meersseman, Laurent (*with* Verjovsky, Alberto) Holomorphic principal bundles over projective toric varieties. **2005e:14080**
Verjovsky, Alberto *see* **Meersseman, Laurent**, 2005e:14080

32K99 None of the above, but in this section

Items with secondary classifications in 32K99

Budzyńska, Monika Holomorphic retracts in domains with the locally uniformly linearly convex Kobayashi distance. (English summary) **2005h:47096**
Bui Quoc Hoan Holomorphic functions of uniformly bounded type and linear topological invariants (H_{ub}), $(\widetilde{LB}^{\infty})$ and $(\widetilde{LB}_{\infty})$. (English summary) **2005b:46090**
Dineen, Seán (*with* Venkova, Milena) Extending bounded type holomorphic mappings on a Banach space. (English summary) **2005j:46027**
Filipsson, Lars Kergin interpolation in Banach spaces. (English summary) **2005a:46092**
Hamada, Hidetaka (*with* Kohr, Gabriela) Loewner chains and parametric representation of biholomorphic mappings in complex Banach spaces. (English summary) **2005a:58011**
Honda, Tatsuhiro (*with* Miyagi, Mitsuhiro; Nishihara, Masaru; Ohgai, Seiko; Yoshida, Mamoru) The Frenkel's lemma in Banach spaces and its applications. (English summary) **2005h:32018**
Hu, Chuan-Gan (*with* Liu, Chao) Refined order and the Paley problem in vector spaces. (English summary) **2005e:30051**
Kohr, Gabriela *see* **Hamada, Hidetaka**, 2005a:58011
Lempert, László Analytic cohomology in Fréchet spaces. (English summary) **2005c:32015**
— The $\overline{\partial}$ equation in N variables, as N varies. **2005g:32053**
— Vanishing cohomology for holomorphic vector bundles in a Banach setting. (English summary) **2005j:32024**
Liu, Chao *see* **Hu, Chuan-Gan**, 2005e:30051
Miyagi, Mitsuhiro *see* **Honda, Tatsuhiro et al.**, 2005h:32018
Nishihara, Masaru *see* **Honda, Tatsuhiro et al.**, 2005h:32018
Ohgai, Seiko *see* **Honda, Tatsuhiro et al.**, 2005h:32018
Venkova, Milena *see* **Dineen, Seán**, 2005j:46027
Việt-Anh Nguyên A remark on a question of Lempert-Henkin. (English summary) **2005c:32045**
Yoshida, Mamoru *see* **Honda, Tatsuhiro et al.**, 2005h:32018

32Lxx Holomorphic fiber spaces [see also 55Rxx]

32L05 Holomorphic bundles and generalizations

Ballico, Edoardo Holomorphic principal bundles on holomorphically convex complex manifolds. (English summary)
— Holomorphic vector bundles and proper holomorphic maps. (English summary)
Biswas, Indranil Equivariant vector bundles over the upper half plane. (English summary) **2005e:32036**
— (*with* Subramanian, Swaminathan) Numerically flat principal bundles. (English summary) **2005m:32038**
Mourougane, Christophe Computations of Bott-Chern classes on $\mathbb{P}(E)$. (English summary) **2005d:32036**
Subramanian, Swaminathan *see* **Biswas, Indranil**, 2005m:32038

Items with secondary classifications in 32L05

Ballico, Edoardo Holomorphic vector bundles with infinite-dimensional fibers on compact Riemann surfaces and compact complex spaces. (English summary) **2005b:32036**
— On the infinite-dimensional holomorphic structure on topological bundles. (English and French summaries) **2005b:32037**
— Projective bundles on infinite-dimensional complex spaces. (English summary) **2005d:32032**
— On the infinite-dimensional holomorphic structure on topological bundles with fibers isomorphic to $\mathbf{C}^{(\mathbf{N})}$. (English summary) **2005d:32034**
— Cousin I condition and Stein spaces. (English summary) **2005h:32026**
Biswas, Indranil (*with* Subramanian, Swaminathan) Flat holomorphic connections on principal bundles over a projective manifold. (English summary) **2005d:14058**
Chen, Bo-Yong (*with* Zhang, Jinhao) The Serre problem on certain bounded domains (English summary) **2005g:32032**
Eckl, Thomas Tsuji's numerical trivial fibrations. (English summary) **2005f:14014**
El Goul, Jawher Demailly's 2-jet negativity of certain hyperbolic fibrations. (English summary) **2005f:32041**
Florentino, Carlos A. (*with* Mourão, José M.; Nunes, João P.) Coherent state transforms and vector bundles on elliptic curves. (English summary) **2005d:14052**
Forstnerič, Franc Noncritical holomorphic functions on Stein manifolds. **2005b:32021**
Kazama, Hideaki (*with* Kim, Kyungnam) Diophantine approximations and Kodaira's lemma. **2005g:11127**
Kim, Kyungnam *see* **Kazama, Hideaki**, 2005g:11127
Mourão, José M. *see* **Florentino, Carlos A. et al.**, 2005d:14052
Nunes, João P. *see* **Florentino, Carlos A. et al.**, 2005d:14052
Pflug, Peter (*with* Zwonek, Włodzimierz) The Serre problem with Reinhardt fibers. (English and French summaries) **2005b:32058**
Subramanian, Swaminathan *see* **Biswas, Indranil**, 2005d:14058
Zhang, Jinhao *see* **Chen, Bo-Yong**, 2005g:32032
Zwonek, Włodzimierz *see* **Pflug, Peter**, 2005b:32058

32L10 Sheaves and cohomology of sections of holomorphic vector bundles, general results [see also 14F05, 18F20, 55N30]

Ballico, Edoardo Topologically trivial holomorphic vector bundles on infinite-dimensional projective varieties. (English summary) **2005j:32022a**
— Topologically trivial holomorphic vector bundles on infinite-dimensional projective varieties. (English summary) **2005j:32022b**
— Holomorphic vector bundles on quadric hypersurfaces of infinite-dimensional projective spaces. (English summary) **2005h:32045**
Berman, Robert Bergman kernels and local holomorphic Morse inequalities. (English summary) **2005g:32024**
Christ, Michael Slow off-diagonal decay for Szegö kernels associated to smooth Hermitian line bundles. (English summary) **2005b:32038**
Donnelly, Harold Spectral theory for tensor products of Hermitian holomorphic line bundles. (English summary) **2005b:32039**
Igonin, Sergei Notes on homogeneous vector bundles over complex flag manifolds. (English summary) **2005b:32040**
Liu, Wei Ming (*with* Zhou, Xiang Yu) Line bundles on non-primary Hopf manifolds. (English summary) **2005m:32039**
— *see also* **Zhou, Xiang Yu**, 2005j:32023
Mochizuki, Takuro Asymptotic behaviour of tame nilpotent harmonic bundles with trivial parabolic structure. (English summary) **2005f:32032**
Shiffman, Bernard (*with* Zelditch, Steve) Random polynomials of high degree and Levy concentration of measure. (English summary) **2005e:32037**
Verbitsky, Misha Coherent sheaves on generic compact tori. (English summary) **2005m:32040**
Zelditch, Steve *see* **Shiffman, Bernard**, 2005e:32037
Zhou, Xiang Yu (*with* Liu, Wei Ming) Holomorphic vector bundle on Hopf manifolds with abelian fundamental groups. (English summary) **2005j:32023**
— A remark on the Douady sequence for non-primary Hopf manifolds. **2005m:32041**
— *see also* **Liu, Wei Ming**, 2005m:32039

Items with secondary classifications in 32L10

Ballico, Edoardo Infinite-dimensionality of cohomology groups of infinite-dimensional complex spaces. (English summary) **2005d:32030**
— Direct images of holomorphic vector bundles on $\mathbf{P}^k$-projections on infinite-dimensional complex spaces. (English summary) **2005c:32026**
— Infinitesimal neighborhoods of infinite-dimensional complex projective spaces. (English summary) **2005d:32035**
— Holomorphic embeddings of Stein spaces in infinite-dimensional projective spaces. (English summary) **2005i:32011**
Biswas, Indranil Flat principal bundles over an abelian variety. (English summary) **2005d:14057**
Cagliero, Leandro (*with* Tirao, Paulo) The cohomology of the cotangent bundle of Heisenberg groups. (English summary) **2005a:17017**
Douglas, Michael R. (*with* Shiffman, Bernard; Zelditch, Steve) Critical points and supersymmetric vacua. I. (English summary) **2005h:32047**
Le Mau Hai (*with* Pham Hien Bang) Linear topological invariants and holomorphic cohomology groups in infinite dimension. (English summary) **2005f:46091**
Lempert, László Vanishing cohomology for holomorphic vector bundles in a Banach setting. (English summary) **2005j:32024**
Mabuchi, Toshiki An energy-theoretic approach to the Hitchin-Kobayashi correspondence for manifolds. I. **2005m:32047**
Paoletti, Roberto Szegő kernels and finite group actions. (English summary) **2005g:53182**
Pham Hien Bang *see* **Le Mau Hai**, 2005f:46091
Shiffman, Bernard *see* **Douglas, Michael R. et al.**, 2005h:32047
Siu, Yum-Tong Invariance of plurigenera and torsion-freeness of direct image sheaves of pluricanonical bundles. (English summary) **2005j:32020**
Tirao, Paulo *see* **Cagliero, Leandro**, 2005a:17017
Wu, Siye On the instanton complex of holomorphic Morse theory. (English summary) **2005a:58031**
Zelditch, Steve *see* **Douglas, Michael R. et al.**, 2005h:32047

32L15 Bundle convexity [see also 32F10]

Items with secondary classifications in 32L15

Abdelkader, Osama (*with* Khidr, Shaban) L^p-estimates for solutions of $\overline{\partial}$-equation on strongly q-convex domains. (English summary) **2005h:32091**

Khidr, Shaban *see* **Abdelkader, Osama**, 2005h:32091

32L20 Vanishing theorems

Demailly, Jean-Pierre (*with* Peternell, Thomas) A Kawamata-Viehweg vanishing theorem on compact Kähler manifolds. (English summary) **2005f:32033**
Kajiwara, Joji (*with* Li, Xiao Dong[2]; Shon, Kwang Ho) Cohomology vanishing in Hilbert spaces. (English summary) **2005a:32017**
Lempert, László Vanishing cohomology for holomorphic vector bundles in a Banach setting. (English summary) **2005j:32024**
Li, Xiao Dong[2] *see* **Kajiwara, Joji et al.**, 2005a:32017
Peternell, Thomas *see* **Demailly, Jean-Pierre**, 2005f:32033
Shon, Kwang Ho *see* **Kajiwara, Joji et al.**, 2005a:32017

Items with secondary classifications in 32L20

Ballico, Edoardo Complements of complete intersections in infinite-dimensional complex projective spaces. (English summary) **2005d:32031**
— Infinitesimal neighborhoods of infinite-dimensional complex projective spaces. (English summary) **2005d:32035**
Berman, Robert Bergman kernels and local holomorphic Morse inequalities. (English summary) **2005g:32024**
Bracci, Filippo (*with* Suwa, Tatsuo) Residues for holomorphic foliations of singular pairs. (English summary) **2005m:32060**
Igonin, Sergei Notes on homogeneous vector bundles over complex flag manifolds. (English summary) **2005b:32040**
Schürmann, Jörg ★ Topology of singular spaces and constructible sheaves. **2005f:32053**
Siu, Yum-Tong Invariance of plurigenera and torsion-freeness of direct image sheaves of pluricanonical bundles. (English summary) **2005j:32020**
Suwa, Tatsuo *see* **Bracci, Filippo**, 2005m:32060

32L25 Twistor theory, double fibrations [see also 53C28]

Agnew, Alfonso F. Spacetime algebras and twistor theory. (English summary) **2005d:32037**
D'Agnolo, Andrea (*with* Schapira, Pierre) On twisted microdifferential modules. I. Non-existence of twisted wave equations. (English summary) **2005e:32038**
David, Liana Relative involutive cohomology and applications. (English summary) **2005b:32041**
— Several extensions of the smooth Penrose transform. (English summary) **2005d:32038**
Fujiki, Akira Twistor spaces of algebraic dimension two associated to a connected sum of projective planes. (English summary) **2005g:32025**
Henkin, G. M. Abel-Radon transform and applications. (English summary) **2005d:32039**
Huckleberry, Alan T. (*with* Wolf, Joseph A.) Injectivity of the double fibration transform for cycle spaces of flag domains. (English summary) **2005h:32046**
Lê Dũng Tráng (*with* Seade, José A.; Verjovsky, Alberto) Quadrics, orthogonal actions and involutions in complex projective spaces. **2005b:32042**
Schapira, Pierre *see* **D'Agnolo, Andrea**, 2005e:32038
Seade, José A. *see* **Lê Dũng Tráng et al.**, 2005b:32042
Somberg, Petr Non-standard singular invariant differential operators for quaternionic parabolic geometries—beyond the A_n-series of Lie algebras. (English summary) **2005m:32042**
Verjovsky, Alberto *see* **Lê Dũng Tráng et al.**, 2005b:32042
Wolf, Joseph A. *see* **Huckleberry, Alan T.**, 2005h:32046

Items with secondary classifications in 32L25

Agnew, Alfonso F. The twistor structure of the biquaternionic projective point. (English summary) **2005c:53058**
Bureš, Jarolím Conformally invariant first order equations, their analysis and geometry. (English summary) **2005e:81100**
Herrera, Haydeé (*with* Herrera Guzmán, Rafael) Generalized elliptic genus and cobordism class of nonspin real Grassmannians. (English summary) **2005f:58030**
Herrera Guzmán, Rafael *see* **Herrera, Haydeé**, 2005f:58030
Ławrynowicz, Julian (*with* Lounesto, Pertti; Suzuki, Osamu) An approach to the 5-, 9-, and 13-dimensional complex dynamics. III. Triality aspects. (Polish summary) **2005i:81065**
Lorch, John D. (*with* Mantini, Lisa A.; Novak, Jodie D.) Intertwining ladder representations for $SU(p,q)$ into Dolbeault cohomology. (English summary) **2005f:22023**
Lounesto, Pertti *see* **Ławrynowicz, Julian et al.**, 2005i:81065
Mantini, Lisa A. *see* **Lorch, John D. et al.**, 2005f:22023
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32Mxx Complex spaces with a group of automorphisms

32M05 Complex Lie groups, automorphism groups acting on complex spaces [see also 22E10]

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32M25 Complex vector fields

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32Nxx Automorphic functions [see also 11Fxx, 20H10, 22E40, 30F35]

32N05 General theory of automorphic functions of several complex variables

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32N10 Automorphic forms

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32N15 Automorphic functions in symmetric domains

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32Qxx Complex manifolds

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32Q05 Negative curvature manifolds

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32S10 Invariants of analytic local rings

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32S15 Equisingularity (topological and analytic) [see also 14E15]

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32S30 Deformations of singularities; vanishing cycles [see also 14B07]

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32S35 Mixed Hodge theory of singular varieties [see also 14C30, 14D07]

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32S45 Modifications; resolution of singularities [see also 14E15]

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32S70 Other operations on singularities

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32Txx Pseudoconvex domains

32T05 Domains of holomorphy

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32T25 Finite type domains

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32T27 Geometric and analytic invariants on weakly pseudoconvex boundaries

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32T40 Peak functions

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32Uxx Pluripotential theory

32U05 Plurisubharmonic functions and generalizations [see also 31C10]

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32Vxx CR manifolds

32V05 CR structures, CR operators, and generalizations

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32V35 Finite type conditions on CR manifolds

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32Wxx Differential operators in several variables

32W05 $\overline{\partial}$ and $\overline{\partial}$-Neumann operators

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Sheremeta, M. M. *see* **Posīko, O. S. et al., 2005f:26028**
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Srivastava, Hari M. *see* **Chen, Kung-Yu, 2005j:33007**
(Sun, Xiaobai) *see* **Kobayashi, Kenta, 2005b:65143**
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33B15 Gamma, beta and polygamma functions

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Batir, Necdet An interesting double inequality for Euler's gamma function. (English summary) **2005h:33001**
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Chen, Chao-Ping (*with* Qi, Feng[1]) Inequalities relating to the gamma function. (English summary) **2005f:33002**
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Li, Chao (*with* Liu, Duan Sen; Wang, Nian Liang) Some properties of Gamma functions. (Chinese. English and Chinese summaries)
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Normand, Jean-Marie Calculation of some determinants using the s-shifted factorial. (English summary) **2005h:33004**
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Cho, Young Joon *see* **Choi, Junesang et al., 2005h:11192** *and* **Jung, Myungho et al., 2005k:11180**
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Owa, Shigeyoshi (*with* Srivastava, Hari M.) Some subordination theorems involving a certain family of integral operators. (English summary) **2005k:30048**
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Qadir, Asghar *see* **Chaudhry, Muhammad Aslam et al.**, **2005h:33007** *and* **2005i:46042**
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Rivoal, Tanguy Selberg's integral and linear forms in zeta values. (English summary) **2005a:33006**
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Wach-Michalik, Anna *see* **Choczewski, Bogdan**, **2005k:39027**
Wakayama, Masato *see* **Kurokawa, Nobushige**, **2005g:11164**

33B20 Incomplete beta and gamma functions (error functions, probability integral, Fresnel integrals)

Chao, Yi-Shan *see* **Lin, Shy-Der et al.**, **2005m:33004**
Guseinov, Israfil (*with* Mamedov, Bahtiyar) Evaluation of incomplete gamma functions using downward recursion and analytical relations. (English summary)
— (*with* Mamedov, Bahtiyar) Calculation of the generalized Hubbell rectangular source integrals using binomial coefficients. (English summary) **2005h:33005**
Lin, Shy-Der (*with* Chao, Yi-Shan; Srivastava, Hari M.) Some expansions of the exponential integral in series of the incomplete gamma function. (English summary) **2005m:33004**
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Yoshimoto, Masami *see* **Kanemitsu, Shigeru et al.**, **2005g:11160**

33B30 Higher logarithm functions

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Borwein, David *see* **Borwein, Jonathan Michael et al.**, **2005i:11179**
Borwein, Jonathan Michael (*with* Borwein, David; Galway, William F.) Finding and excluding b-ary Machin-type individual digit. (English summary) **2005i:11179**
Brown, Francis C. S. Polylogarithmes multiples uniformes en une variable. (English and French summaries) [Single-valued multiple polylogarithms in one variable] **2005c:19007**
Canfield, E. Rodney From recursions to asymptotics: Durfee and dilogarithmic deductions. (English summary) **2005m:05009**
Choi, Junesang *see* **Lee, Hyerim**, **2005a:11127**
Ciccariello, Salvino The Lerch function and the thermodynamical functions of the ideal quantum gases. (English summary) **2005e:82008**
Davydychev, A. I. (*with* Kalmykov, M. Yu.) Massive Feynman diagrams and inverse binomial sums. (English summary)
Galway, William F. *see* **Borwein, Jonathan Michael et al.**, **2005i:11179**
Goncharov, A. B. Euclidean scissor congruence groups and mixed Tate motives over dual numbers. (English summary) **2005m:11124**
Hoang Ngoc Minh, V. Finite polyzêtas, poly-Bernoulli numbers, identities of polyzêtas and noncommutative rational power series. (English summary) **2005g:11169**
Kalmykov, M. Yu. *see* **Davydychev, A. I.**
Lee, Hyerim (*with* Choi, Junesang) Series associated with the zeta function. (English summary) **2005a:11127**
Okuda, Jun-ichi (*with* Ueno, Kimio) Relations for multiple zeta values and Mellin transforms of multiple polylogarithms. (English summary) **2005f:11199**
Rivoal, Tanguy Indépendance linéaire des valeurs des polylogarithmes. (English and French summaries) [Linear independence of the values of polylogarithms] **2005m:11136**
Srivastava, Hari M. (*with* Tomovski, Živorad) Some problems and solutions involving Mathieu's series and its generalizations. (English summary) **2005e:26035**
Terhune, David Evaluation of double L-values. (English summary) **2005f:11200**
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Waldschmidt, Michel Algebraic values of analytic functions. (English summary) **2005b:11112**
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Zudilin, V. V. Well-poised generation of Apéry-like recursions. (English summary) **2005k:11148**

33B99 None of the above, but in this section

Kheyfits, Alexander I. Closed-form representations of the Lambert W function. (English summary) **2005e:33001**

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Przeworska-Rolewicz, D. Algebraic analysis in structures with the Kaplansky-Jacobson property. (English summary) **2005k:47005**
Williams, Brian Wesley Exact solutions of a Schrödinger equation based on the Lambert function. (English summary) **2005h:34004**

33Cxx Hypergeometric functions

33C05 Classical hypergeometric functions, ${}_2F_1$

Bhati, Virendra S. *see* **Sethi, P. L.**, **2005g:33005**
Brown, B. Malcolm (*with* Eastham, M. S. P.) Extended Hurwitz results for hypergeometric functions arising in spectral theory. (English summary) **2005d:33004**
Brychkov, Yu. A. (*with* Geddes, Keith O.) Differentiation of hypergeometric functions with respect to parameters. (English summary) **2005h:33006**
Chaudhry, Muhammad Aslam (*with* Qadir, Asghar; Srivastava, Hari M.; Paris, R. B.) Extended hypergeometric and confluent hypergeometric functions. (English summary) **2005h:33007**
Cheon, Gi-Sang (*with* El-Mikkawy, M. E. A.) Extended symmetric Pascal matrices via hypergeometric functions. (English summary) **2005i:33003**
Driver, K. (*with* Jordaan, K.) Asymptotic zero distribution of a class of ${}_3F_2$ hypergeometric functions. (English summary) **2005f:33004**
Eastham, M. S. P. *see* **Brown, B. Malcolm**, **2005d:33004**
El-Mikkawy, M. E. A. *see* **Cheon, Gi-Sang**, **2005i:33003**
Exton, Harold A generalization of a generating function by Chaundy. (English summary)
(Gauss, Carl Friedrich) *see* **Srinivasa Rao, Killampalli**, **2005f:33006**
Geddes, Keith O. *see* **Brychkov, Yu. A.**, **2005h:33006**
Ibrahim, Adel K. (*with* Rakha, Medhat A.) Numerical computations of infinite products. (English summary) **2005j:33003**
Ichikawa, Takashi (*with* Yoshida, Masaaki) On Schottky groups arising from the hypergeometric equation with imaginary exponents. (English summary) **2005m:33005**
Joneš, D. S. Some properties of Legendre functions. (English summary) **2005b:33004**
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Lievens, S. (*with* Srinivasa Rao, Killampalli; Van der Jeugt, Joris) The finite group of the Kummer solutions. (English summary) **2005h:33008**
Matera, Josefina *see* **Prieto, Ana Isolina**, **2005h:33009**
Miheşan, Vasile A method for summability of hypergeometric function. (English summary) **2005g:33004**
Ochiai, Hiroyuki (*with* Yoshida, Masaaki) Polynomials associated with the hypergeometric functions with finite monodromy groups. (English summary) **2005f:33005**
Paris, R. B. *see* **Chaudhry, Muhammad Aslam et al.**, **2005h:33007**
Prieto, Ana Isolina (*with* Matera, Josefina) Some results on the generalized hypergeometric function ${}_2R_1^\dagger(z)$. (Spanish. English and Spanish summaries) **2005h:33009**
Qadir, Asghar *see* **Chaudhry, Muhammad Aslam et al.**, **2005h:33007**
Rakha, Medhat A. *see* **Ibrahim, Adel K.**, **2005j:33003**
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Rusev, Pet″r K. Singular points of analytic functions defined by series in Legendre associated functions. (English summary)
Sethi, P. L. (*with* Bhati, Virendra S.) Some generating relations of hypergeometric polynomials ${}_2F_1(-n, \alpha; v; f(x))$ by Lie algebraic method. (English summary) **2005g:33005**
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Stanton, Dennis Summable sums of hypergeometric series. (English summary) **2005m:33006**
Takano, Katsuo On roots of hypergeometric functions. **2005i:33004**
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Yoshida, Masaaki *see* **Ochiai, Hiroyuki**, **2005f:33005** *and* **Ichikawa, Takashi**, **2005m:33005**

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Adiga, Chandrashekar *see* **Bhargava, Srinivasamurthy et al.**, **2005f:33035**
Agrawal, M. R. (*with* Howlett, P. G.; Lucas, S. K.; Naik, Sunanda; Ponnusamy, S.) Boundedness of generalized Cesáro averaging operators on certain function spaces. (English summary) **2005m:47061**
Ali, M. Masoom *see* **Nadarajah, Saralees**, **2005h:60044**
Alzer, Horst (*with* Qiu, Song-Liang) Monotonicity theorems and inequalities for the complete elliptic integrals. (English summary) **2005i:33021**
Aoki, Takashi (*with* Ohno, Yasuo) Sum relations for multiple zeta values and connection formulas for the Gauss hypergeometric functions. (English summary) **2005m:11165**
Araaya, Tsehaye K. The Meixner-Pollaczek polynomials and a system of orthogonal polynomials in a strip. (English summary) **2005g:33010**

Barros-Neto, José Fundamental solutions for the Tricomi operator: pole in the elliptic region. (English summary) **2005h:35253**
— (*with* Gel′fand, Izrail′ Moiseevich) Fundamental solutions of the Tricomi operator. III. (English summary) **2005m:35200**
Bhargava, Srinivasamurthy (*with* Adiga, Chandrashekar; Mahadeva Naika, M. S.) A new class of modular equations in Ramanujan's alternative theory of elliptic functions of signature 4 and some new P-Q eta-function identities. (English summary) **2005f:33035**
Borodin, A. M. (*with* Deift, Percy) Fredholm determinants, Jimbo-Miwa-Ueno τ-functions, and representation theory. (English summary) **2005f:35234**
Borwein, Jonathan Michael (*with* Crandall, Richard E.; Fee, G.) On the Ramanujan AGM fraction. I. The real-parameter case. (English summary) **2005g:11126**
— (*with* Crandall, Richard E.) On the Ramanujan AGM fraction. II. The complex-parameter case. (English summary) **2005h:11149**
Chan, Heng Huat (*with* Chan, Song Heng; Liu, Zhi-Guo) Domb's numbers and Ramanujan-Sato type series for $1/\pi$. (English summary) **2005e:11170**
Chan, Song Heng *see* **Chan, Heng Huat et al., 2005e:11170**
Chenaghlou, A. *see* **Fakhri, H., 2005h:33030**
Crandall, Richard E. *see* **Borwein, Jonathan Michael et al., 2005g:11126** *and* **2005h:11149**
Deift, Percy *see* **Borodin, A. M., 2005f:35234**
Delves, R. T. *see* **Joyce, G. S., 2005f:33037** *and* **2005f:33038**
Desrousseaux, Pierre-Antoine Valeurs exceptionnelles de fonctions hypergéométriques d'Appell. (English and French summaries) [Exceptional values of Appell hypergeometric functions] **2005i:11094**
Dimitrov, Dimitar K. Asymptotics of zeros of polynomials arising from rational integrals. (English summary) **2005h:33048**
Dunster, T. M. Convergent expansions for solutions of linear ordinary differential equations having a simple pole, with an application to associated Legendre functions. (English summary) **2005h:34231**
Eelbode, D. (*with* Sommen, Franciscus) The fundamental solution of the hyperbolic Dirac operator on $\mathbb{R}^{1,m}$: a new approach. (English summary) **2005k:30093**
Elsner, Carsten On recurrence formulae for sums involving binomial coefficients. **2005m:11027**
Fakhri, H. (*with* Chenaghlou, A.) Ladder operators for the associated Laguerre functions. (English summary) **2005h:33030**
Fee, G. *see* **Borwein, Jonathan Michael et al., 2005g:11126**
Garg, Mridula (*with* Mathur, Amit) Finite integrals involving Laguerre functions and the $\overline{H}$-function. (English summary) (*see* **2005c:33002**)
Gel′fand, Izrail′ Moiseevich *see* **Barros-Neto, José, 2005m:35200**
Grammatikopoulos, M. K. (*with* Popivanov, N. I.; Popov, T. P.) New singular solutions of Protter's problem for the 3D wave equation. **2005f:35183**
Gupta, Shyamli A note on certain entries of Ramanujan. (English summary) **2005h:33013**
Howlett, P. G. *see* **Agrawal, M. R. et al., 2005m:47061**
Joyce, G. S. (*with* Delves, R. T.) Exact product forms for the simple cubic lattice Green function. I. (English summary) **2005f:33037**
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Kaneko, Masanobu (*with* Koike, Masao) On modular forms arising from a differential equation of hypergeometric type. (English summary) **2005a:11050**
Kim, Yong Sup (*with* Rathie, Arjun K.; Park, Chan Bong; Lee, Chang Hyun) Generalization of Watson's theorem for double series. (English summary) **2005g:33033**
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Lee, Chang Hyun *see* **Kim, Yong Sup et al., 2005g:33033**
Liu, Zhi-Guo *see* **Chan, Heng Huat et al., 2005e:11170**
Lucas, S. K. *see* **Agrawal, M. R. et al., 2005m:47061**
Luo, Qiu Ming On the Apostol-Bernoulli polynomials. (English summary) **2005m:11031**
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Masjed Jamei, Mohammad Classical orthogonal polynomials with weight function $((ax+b)^2+(cx+d)^2)^{-p}\exp(q\,\mathrm{Arctg}((ax+b)/(cx+d)))$, $x\in(-\infty,\infty)$ and a generalization of T and F distributions. (English summary) **2005b:33011**
Masuda, Tetsu Classical transcendental solutions of the Painlevé equations and their degeneration. (English summary) **2005f:33036**
Mathur, Amit *see* **Garg, Mridula, (2005c:33002)**
Nadarajah, Saralees (*with* Ali, M. Masoom) A skewed truncated t distribution. (English summary) **2005h:60044**
Naik, Sunanda (*with* Ponnusamy, S.) Univalency of a convolution operator concerning hypergeometric functions. (English summary) (*see* **2005m:00007**)
— *see also* **Agrawal, M. R. et al., 2005m:47061**
Ohno, Yasuo *see* **Aoki, Takashi, 2005m:11165**
Okazaki, Hiromitsu *see* **Takano, Katsuo, (2005m:39001)**
Owa, Shigeyoshi (*with* Srivastava, Hari M.) Some subordination theorems involving a certain family of integral operators. (English summary) **2005k:30048**
Park, Chan Bong *see* **Kim, Yong Sup et al., 2005g:33033**
Ponnusamy, S. *see* **Agrawal, M. R. et al., 2005m:47061** *and* **Naik, Sunanda, (2005m:00007)**
Popivanov, N. I. (*with* Popov, T. P.) Estimates for the singular solutions of the 3-D Protter's problem. (English summary) **2005c:35175**
— *see also* **Grammatikopoulos, M. K. et al., 2005f:35183**
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33C50 Orthogonal polynomials and functions in several variables expressible in terms of special functions in one variable

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— (*with* Migliorati, M.; Srivastava, Hari M.) Some families of generating functions for the Bessel and related functions. (English summary) **2005d:33006**
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33C52 Orthogonal polynomials and functions associated with root systems

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Rösler, Margit A positive radial product formula for the Dunkl kernel. (English summary) **2005g:33022**

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33C55 Spherical harmonics

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Caillerie, S. *see* **Lachièze-Rey, M., 2005j:33011**
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33C60 Hypergeometric integrals and functions defined by them (E, G and H functions)

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Al-Jarrah, Ahmad Ali Triple integral involving the $\overline{H}$-function. (English summary) **2005j:33013**
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Chaurasia, V. B. L. (*with* Srivastava, Amber) The integration of certain products pertaining to the H-function wtih general polynomials. (English summary)
Garg, Mridula (*with* Mathur, Amit) Finite integrals involving Laguerre functions and the $\overline{H}$-function. (English summary) (*see* **2005c:33002**)
— (*with* Mishra, Rupakshi) On product of hypergeometric functions, general class of multivariable polynomials and a generalized hypergeometric series associated with

Feynman integrals. (English summary) **2005g:33024**
— (*with* Mishra, Rupakshi) On finite integrals involving the $\overline{H}$-function, general class of polynomials and exponential function. (English summary) **2005j:33014**
— (*with* Gupta, Vinita) On unified integrals involving the generalized Legendre's associated function, the general class of multivariable polynomials and the $\overline{H}$-function. (English summary) **2005m:33020**
— (*with* Mittal, Shweta) On certain unified integrals involving general class of polynomials and the multivariable H-function. (English summary) **2005j:33015**
Garg, Rashmi (*with* Mukherjee, Rohit) A multiple integral involving general class of polynomials, generalized polynomials set, Konhauser biorthogonal polynomials and the multivariable H-function with applications. (Hindi. English and Hindi summaries)
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Kalla, Shyam L. *see* **Saxena, Ram Kishore et al.**, **2005d:33020**
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Koul, C. L. *see* **Agarwal, Praveen**, **2005j:33012** *and* **Singh, Jaiveer**
Kumar, Dinesh[3] *see* **Ram, Chena** *and* **Saxena, Ram Kishore et al.**
Mathur, Amit *see* **Garg, Mridula**, (**2005c:33002**)
Mishra, Rupakshi *see* **Garg, Mridula**, **2005g:33024** *and* **2005j:33014**
Mittal, Shweta *see* **Garg, Mridula**, **2005j:33015**
Mukherjee, Rohit *see* **Garg, Rashmi**
Nigam, S. K. On multiplication formulae for Fox's H-function. (English summary) **2005m:33021**
Parashar, Alka On a general multiple Eulerian integrals involving general classes of polynomials and multivariable H-function. (English summary) (*see* **2005c:33002**)
Ram, Chena (*with* Kumar, Dinesh[3]) Eulerian integral of multivariable I-function. (Hindi. English and Hindi summaries)
— *see also* **Saxena, Ram Kishore et al.**
Ram, Jeta *see* **Saxena, Ram Kishore et al.**, **2005d:33020**
Rathie, Arjun K. (*with* Kim, Yong Sup) Further results on Srivastava's triple hypergeometric series H_A and H_C. (English summary) **2005g:33025**
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Sengar, Shailja *see* **Singh Chandel, R. C.**
Sethi, P. L. (*with* Chandra, Mahesh) G-function distribution of matrix argument. (Hindi. English and Hindi summaries) **2005g:33026**
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Singh Chandel, R. C. (*with* Sengar, Shailja) On two boundary value problems. (English summary)
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Garg, Mridula (*with* Mishra, Girish; Gupta, Mahesh Kumar) The distribution of the ratio of products of rational powers of independent random variables. (English summary) **2005k:62046**
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33C65 Appell, Horn and Lauricella functions

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Kato, Mitsuo A Schwarz map of Appell's F_2 with projective monodromy group of order 25 920. **2005d:33021**
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Ram, Jeta *see* **Saxena, Ram Kishore et al.**, (**2005d:33002**)
Rathie, Arjun K. *see* **Choi, Junesang et al.**, **2005f:33023** *and* **Shashikant et al.**, (**2005c:33002**)
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33C75 Elliptic integrals as hypergeometric functions

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33Dxx Basic hypergeometric functions

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33D15 Basic hypergeometric functions in one variable, ${}_r\varphi_s$

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33D52 Basic orthogonal polynomials and functions associated with root systems (Macdonald polynomials, etc.)

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33D60 Basic hypergeometric integrals and functions defined by them

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33D65 Bibasic functions and multiple bases

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33D67 Basic hypergeometric functions associated with root systems

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33D70 Other basic hypergeometric functions and integrals in several variables

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33D80 Connections with quantum groups, Chevalley groups, p-adic groups, Hecke algebras, and related topics

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33Exx Other special functions

33E05 Elliptic functions and integrals

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33E10 Lamé, Mathieu, and spheroidal wave functions

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33E12 Mittag-Leffler functions and generalizations

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33E15 Other wave functions

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33Fxx Computational aspects

33F05 Numerical approximation [see also 65D20]

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34–XX Ordinary differential equations

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Egorov, Aleksandr Ivanovich ★ Обыкновенные дифференциальные уравнения с приложениями. (Russian. Russian summary) [Ordinary differential equations with applications] **2005a:34001**
Markley, Nelson G. ★ Principles of differential equations. **2005b:34001**
Robinson, James Cooper ★ An introduction to ordinary differential equations. **2005a:34002**
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Berhanu, Shif (*with* Mohammed, Ahmed) A Harnack inequality for ordinary differential equations. **2005i:34039**
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Denkowski, Zdzisław (*with* Migórski, Stanisław; Papageorgiou, Nikolaos S.) ★ An introduction to nonlinear analysis: applications. **2005b:47108**
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Edelstein-Keshet, Leah ★ Mathematical models in biology.
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Johnson, Russell A. (*with* Mantellini, Francesca) Non-autonomous differential equations. **2005b:37040**
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Rahman, Matiur ★ Applied numerical analysis. **2005f:65001**
Robinson, Clark ★ An introduction to dynamical systems: continuous and discrete. **2005k:37001**
Smale, Stephen *see* **Hirsch, Morris W. et al., 2005m:37001**
Stanoyevitch, Alexander ★ Introduction to numerical ordinary and partial differential equations using MATLAB®.
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34–02 Research exposition (monographs, survey articles)

Agarwal, Ravi P. (*with* Grace, Said R.; O'Regan, Donal) ★ Oscillation theory for second order linear, half-linear, superlinear and sublinear dynamic equations. **2005i:34001**
— (*with* Bohner, Martin; Li, Wan Tong) ★ Nonoscillation and oscillation: theory for functional differential equations. **2005d:34002**
Beklaryan, L. A. Introduction to the theory of functional-differential equations and their applications. A group approach. (Russian. Russian summary) **2005m:34001**
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Borne, P. *see* **Gruyitch, Lyubomir T. et al., 2005c:34001**
Freiling, Gerhard (*with* Yurko, V. A.) ★ Inverse Sturm-Liouville problems and their applications. **2005f:34001**
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Bacciotti, Andrea (*with* Rosier, Lionel) ★ Liapunov functions and stability in control theory. **2005m:93001**
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Chernyĭ, A. S. (*with* Engelbert, Hans-Jürgen) ★ Singular stochastic differential equations. **2005j:60002**
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Filippov, A. F. Differential equations with discontinuous right-hand sides, and differential inclusions. (Russian) **2005k:34024**
Gaĭko, V. A. ★ Global bifurcation theory and Hilbert's sixteenth problem. **2005d:37102**
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34–03 Historical (must also be assigned at least one classification number from Section 01)

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Brown, B. Malcolm (*with* Eastham, M. S. P.; Evans, William Desmond) Laudatum [Norrie Everitt].
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Berkovich, Lev M. (*with* Frolov, I. S.) Representation of solutions of second-order linear differential equations using the language REDUCE and the graphic package GNUPLOT. (Russian. English and Russian summaries)
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Burger, Reinhold (*with* Labahn, George; van Hoeij, Mark) Closed form solutions of linear ODEs having elliptic function coefficients. (English summary) **2005k:34003**
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Rosa, Alessandro Inwards to Chaos and Complex Mapper: two graphical interfaces for simulations in complex analysis and dynamic. (English summary) **2005i:37001**
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34Axx General theory

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34B27 Green functions

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34B30 Special equations (Mathieu, Hill, Bessel, etc.)

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34B45 Boundary value problems on graphs and networks

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34B60 Applications

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34B99 None of the above, but in this section

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34Cxx Qualitative theory [see also 37–XX]

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34Exx Asymptotic theory

34E05 Asymptotic expansions

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34E15 Singular perturbations, general theory

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34E18 Methods of nonstandard analysis

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34E20 Singular perturbations, turning point theory, WKB methods

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34E99 None of the above, but in this section

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34F05 Equations and systems with randomness [see also 34K50, 60H10, 93E03]

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34G99 None of the above, but in this section

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34H05 Control problems [see also 49J25, 49K25, 93C15]

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34Kxx Functional-differential and differential-difference equations, with or without deviating arguments [see also 37–XX]

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(Gu, Keqin) *see* **Advances in time-delay systems, 2005d:93003**
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34K05 General theory

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34K06 Linear functional-differential equations

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Agarwal, Ravi P. (*with* Rontó, Andrei) Linear functional differential equations possessing solutions with a given growth rate. **2005m:34137**
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— (*with* Rontó, Andrei) Some new conditions for the solvability of the Cauchy problem for systems of linear functional-differential equations. (Russian. English and Ukrainian summaries) **2005h:34170**
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— New differential inequalities such that the properties of their solutions ensure the solvability of the Cauchy problem for linear functional-differential equations. (Russian. English summary) **2005h:34172**
— *see also* **Dilnaya, Natalia**, **2005c:34125**; **2005h:34169**; **2005h:34170** *and* **Agarwal, Ravi P.**, **2005m:34137**
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— *see also* **Lomtatidze, A. G.**, **2005h:34171**
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— *see also* **He, Ping[4]**, **2005e:34239**
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34K19 Invariant manifolds

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34K29 Inverse problems

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34K35 Control problems [see also 49J25, 49K25, 93C15]

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34L15 Estimation of eigenvalues, upper and lower bounds

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34L30 Nonlinear ordinary differential operators

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Wipf, A. *see* **Kirchberg, A. et al., 2005m:81118**
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Wu, Tai Tsun *see* **Chadan, Khosrow et al., 2005f:81273**
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Yang, Xiao (*with* Su, Jin Yong; Li, Meng Ru) Nonlinear perturbation of the Dirac operator. (Chinese. English and Chinese summaries) **2005k:47094**
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34L99 None of the above, but in this section

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Binding, Paul A. (*with* Rynne, Bryan P.) Half-eigenvalues of periodic Sturm-Liouville problems. (English summary) **2005g:34056**
Boumenir, Amin (*with* Vũ Kim Tuấn) Existence and construction of the transmutation operator. (English summary) **2005f:34016**
Buchaev, Ya. G. Estimates for the norms of the eigenfunctions of the Sturm-Liouville problem in various spaces. (Russian) **2005k:34098**
Fredet, Anne Factorization of linear differential operators in exponential extensions. (English summary) **2005d:12007**
Iç, Ünal (*with* Koyunbakan, Hikmet) KdV equation and singular Sturm-Liouville problems. (English summary)
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Kozlov, Valeriĭ V. The spectrum of a Hamiltonian system and the symplectic geometry of the complex Artin space. (Russian) **2005e:70028**
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Rynne, Bryan P. *see* **Binding, Paul A., 2005g:34056**
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Ye, Wei Yin Inverse-definiteness of the fourth-order symmetric differential operator. I. (English summary) **2005k:34047**

34Mxx Differential equations in the complex domain [see also 30Dxx, 32G34]

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(Il′yashenko, Yuliĭ S.) *see* **Normal forms, bifurcations and finiteness problems in differential equations, 2005b:37003**
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Montreal, QC ★ Normal forms, bifurcations and finiteness problems in differential equations. **2005b:37003**
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34M05 Entire and meromorphic solutions

Aït-Mokhtar, Sadjia Third order differential equations with fixed critical points. (English summary) **2005e:34262**
van Brunt, Bruce (*with* Marshall, Jonathan C.; Wake, Graeme) Holomorphic solutions to pantograph type equations with neutral fixed points. (English summary) **2005j:34120**
Chen, Zong-Xuan *see* **Cheng, Tao, 2005k:34333**
Cheng, Tao (*with* Chen, Zong-Xuan) A result for the convergence to the zero-sequence of the solution of certain linear differential equation. (English summary) **2005k:34333**
Gao, Ling Yun On the form of systems of complex differential equations. (English and Chinese summaries) **2005h:34228**
Gontsov, R. R. Orders of zeros of a polynomial on the trajectory of the solution of a system of linear differential equations with regular singular points. (Russian)
Gorelov, Vassily Aleksandrovich On the Siegel conjecture for the case of second-order linear homogeneous differential equations. (Russian. Russian summary) **2005h:34229**
Hirasawa, Go *see* **Miura, Takeshi et al., 2005e:34263**
Laine, Ilpo (*with* Rieppo, Jarkko) Differential polynomials generated by linear differential equations. (English summary) **2005g:34221**
Li, Ping[1] *see* **Yang, Chung-Chun, 2005b:34181**
Liao, Liang-Wen (*with* Yang, Chung-Chun) Malmquist-Yosida type theorems for algebraic differential equations. (English summary) **2005c:34177**
Marshall, Jonathan C. *see* **van Brunt, Bruce et al., 2005j:34120**
Miura, Takeshi (*with* Hirasawa, Go; Takahasi, Sin-Ei) Ger-type and Hyers-Ulam stabilities for the first-order linear differential operators of entire functions. (English summary) **2005e:34263**
Rieppo, Jarkko *see* **Laine, Ilpo, 2005g:34221**
Sheremeta, M. M. *see* **Sheremeta, Z. M., 2005e:34264**
Sheremeta, Z. M. (*with* Sheremeta, M. M.) Convexity of entire solutions of a differential equation. (Ukrainian. English, Russian and Ukrainian summaries) **2005e:34264**
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Si, Jianguo (*with* Zhang, Wei Nian) Analytic solutions of a second-order nonautonomous iterative functional differential equation. (English summary) **2005k:34334**
Steinmetz, Norbert Boutroux's method vs. re-scaling lower estimates for the orders of growth of the second and fourth Painlevé transcendents. (English summary) **2005j:34121**
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Wang, Sheng[1] On factorization of solutions to second order homogeneous linear differential equations. (English summary) **2005f:34253**
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Ben Salem, Nejib (*with* Kallel, Samir) Integro-differential-difference equations associated with the Dunkl operator and entire functions. (English summary) **2005h:30054**
van Brunt, Bruce *see* **Marshall, Jonathan C. et al.**, **2005g:34149**
Cardon, David A. (*with* de Gaston, S. A.) Differential operators and entire functions with simple real zeros. (English summary) **2005i:30038**
Chen, Zong-Xuan (*with* Shon, Kwang Ho) The growth of solutions of differential equations with coefficients of small growth in the disc. (English summary) **2005g:34224**
Chiang, Yik-Man (*with* Hayman, Walter Kurt) Estimates on the growth of meromorphic solutions of linear differential equations. (English summary) **2005d:34186**
Conte, Robert *see* **Yee, T.-L. et al.**, **2005b:35250**
Fredet, Anne Linear differential equations in exponential extensions. (English summary) **2005h:34003**
Gao, Ling Yun The order of the solution of a system of complex algebraic differential equations. (Chinese. English and Chinese summaries) **2005k:34341**
de Gaston, S. A. *see* **Cardon, David A.**, **2005i:30038**
Hamani, Karima *see* **Belaïdi, Benharrat**, **2005g:34223**
Hayman, Walter Kurt *see* **Chiang, Yik-Man**, **2005d:34186**
Kallel, Samir *see* **Ben Salem, Nejib**, **2005h:30054**
Korhonen, Risto Sharp forms of Nevanlinna error terms in differential equations. (English summary) **2005h:11161**
(Laine, Ilpo) *see* **Langley, James K.**, **(2005c:35005)**
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Lü, Wei Ran *see* **Wang, Jun[9]**, **2005b:30032**
Marshall, Jonathan C. (*with* van Brunt, Bruce; Wake, Graeme) A natural boundary for solutions to the second order pantograph equation. (English summary) **2005g:34149**
Mokhon'ko, A. A. The Malmquist theorem for solutions of differential equations in a neighborhood of a logarithmic singular point. (Russian. English and Ukrainian summaries) **2005i:34118**
Mokhon'ko, A. Z. (*with* Mokhon'ko, V. D.) On the growth of meromorphic solutions of an algebraic diffferential equation in a neighborhood of a logarithmic singular point. (Russian. English and Ukrainian summaries) **2005d:34187**
Mokhon'ko, V. D. *see* **Mokhon'ko, A. Z.**, **2005d:34187**
Musette, Micheline *see* **Yee, T.-L. et al.**, **2005b:35250**
Petropoulou, Eugenia N. (*with* Siafarikas, Panayiotis D.) Analytic solutions of the Painlevé equations. (English summary) **2005f:34260**
Shcherbak, I. G. Intersections of Schubert varieties and critical points of the generating function. **2005g:14092**
Shimomura, Shun A certain expression of the first Painlevé hierarchy. (English summary) **2005f:34261**
— Poles and α-points of meromorphic solutions of the first Painlevé hierarchy. (English summary) **2005b:34192**
Shon, Kwang Ho *see* **Chen, Zong-Xuan**, **2005g:34224**
Siafarikas, Panayiotis D. *see* **Petropoulou, Eugenia N.**, **2005f:34260**
Wake, Graeme *see* **Marshall, Jonathan C. et al.**, **2005g:34149**
Wang, Jun[9] (*with* Lü, Wei Ran) The fixed points and hyper-order of solutions of second order linear differential equations with meromorphic coefficients. (Chinese. English and Chinese summaries) **2005b:30032**
Yee, T.-L. (*with* Conte, Robert; Musette, Micheline) Sur la "solution analytique générale" d'une équation différentielle chaotique du troisième ordre. (English and French summaries) [On the "general analytic solution" of a third-order chaotic differential equation] **2005b:35250**
Zhang, Wen-teng Non-admissible solutions of a type of systems of differential equations. (English and Chinese summaries) **2005i:30053**

34M10 Oscillation, growth of solutions

Belaïdi, Benharrat Growth of solutions of certain non-homogeneous linear differential equations with entire coefficients. (English summary) **2005e:34265**
— (*with* Hamani, Karima) Some results on the complex oscillation theory of differential equations with polynomial coefficients. (English summary) **2005g:34223**
Benbourenane, D. (*with* Sons, L. R.) Order of growth of solutions to algebraic differential equations in the unit disk. (English summary) **2005h:34230**
Chen, Te Wei *see* **Zhang, Xi Tong**
Chen, Zong-Xuan (*with* Shon, Kwang Ho) On the growth of solutions of a class of higher order differential equations. (English summary) **2005a:34124**
— (*with* Shon, Kwang Ho) The growth of solutions of differential equations with coefficients of small growth in the disc. (English summary) **2005g:34224**
— Growth of solutions of three order differential equations. (English summary) **2005k:34336**
Chiang, Yik-Man (*with* Hayman, Walter Kurt) Estimates on the growth of meromorphic solutions of linear differential equations. (English summary) **2005d:34186**
Cveticanin, L. Free vibration of a strong non-linear system described with complex functions. (English summary) **2005g:34225**
Davies, E. Brian (*with* Kuijlaars, Arno B. J.) Spectral asymptotics of the non-self-adjoint harmonic oscillator. (English summary) **2005e:34266**
Elzaidi, S. M. On the oscillation of solutions of the differential equation $y''' + Ay' + By = 0$. (English summary) **2005e:34267**
Hamani, Karima *see* **Belaïdi, Benharrat**, **2005g:34223**
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Kuijlaars, Arno B. J. *see* **Davies, E. Brian**, **2005e:34266**
Laine, Ilpo (*with* Yang, Ronghua) Finite order solutions of complex linear differential equations. (English summary) **2005b:34182**
Liu, Ming Sheng Fix points and zeros of solutions to higher-order linear differential equations. (Chinese. English and Chinese summaries)
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Mokhon'ko, A. A. The Malmquist theorem for solutions of differential equations in a neighborhood of a logarithmic singular point. (Russian. English and Ukrainian summaries) **2005i:34118**
Mokhon'ko, A. Z. (*with* Mokhon'ko, V. D.) On the growth of meromorphic solutions of an algebraic diffferential equation in a neighborhood of a logarithmic singular point. (Russian. English and Ukrainian summaries) **2005d:34187**
Mokhon'ko, V. D. *see* **Mokhon'ko, A. Z.**, **2005d:34187**
Owa, Shigeyoshi (*with* Saitoh, Hitoshi; Srivastava, Hari M.; Yamakawa, R.) Geometric properties of solutions of a class of differential equations. (English summary) **2005d:34188**
Saitoh, Hitoshi *see* **Owa, Shigeyoshi et al.**, **2005d:34188**
Shon, Kwang Ho *see* **Chen, Zong-Xuan**, **2005a:34124** *and* **2005g:34224**
Sons, L. R. *see* **Benbourenane, D.**, **2005h:34230**
Srivastava, Hari M. *see* **Owa, Shigeyoshi et al.**, **2005d:34188**
Steinbart, Enid M. A further note on a result of Bank, Frank, and Laine: symposium presentation. (English summary) **2005d:34189**
Wang, Sheng[1] On factorization of solutions to second order linear differential equations. (English summary) **2005k:34337**
Xu, Jun Feng (*with* Liu, Ming Sheng) Complex oscillation of periodic linear differential equations. (Chinese. English and Chinese summaries)
Yamakawa, R. *see* **Owa, Shigeyoshi et al.**, **2005d:34188**
Yang, Ronghua *see* **Laine, Ilpo**, **2005b:34182**
Yuan, Chun Ling (*with* Liu, Ming Sheng) Growth of solutions for two classes of higher-order linear differential equations with entire coefficients. (Chinese. English and Chinese summaries)
Zhang, Xi Tong (*with* Chen, Te Wei) Theory of differential polynomials in the exterior of a circle and the zeros of solutions for differential equations. (Chinese. English and Chinese summaries)

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Cheng, Tao (*with* Chen, Zong-Xuan) A result for the convergence to the zero-sequence of the solution of certain linear differential equation. (English summary) **2005k:34333**
Gao, Ling Yun The growth of single-valued meromorphic solutions and finite branch solutions. (Chinese. English and Chinese summaries)
Gontsov, R. R. Improved Fuchs inequalities for systems of linear differential equations. (Russian. Russian summary) **2005b:34188**
Hinkkanen, Aimo (*with* Laine, Ilpo) Growth results for Painlevé transcendents. (English summary) **2005h:34234**
Hirasawa, Go *see* **Miura, Takeshi et al.**, **2005e:34263**
Laine, Ilpo (*with* Rieppo, Jarkko) Differential polynomials generated by linear differential equations. (English summary) **2005g:34221**
— *see also* **Hinkkanen, Aimo**, **2005h:34234** *and* **Langley, James K.**, **(2005c:35005)**
Langley, James K. The work of Ilpo Laine on complex differential equations. (*see* **2005c:35005**)
Lü, Wei Ran *see* **Wang, Jun[9]**, **2005b:30032**
Miura, Takeshi (*with* Hirasawa, Go; Takahasi, Sin-Ei) Ger-type and Hyers-Ulam stabilities for the first-order linear differential operators of entire functions. (English summary) **2005e:34263**
Novikov, Dmitri (*with* Yakovenko, Sergei) Quasialgebraicity of Picard-Vessiot fields. (English and Russian summaries) **2005g:34071**
Petropoulou, Eugenia N. (*with* Siafarikas, Panayiotis D.) Analytic solutions of the Painlevé equations. (English summary) **2005f:34260**
Rieppo, Jarkko *see* **Laine, Ilpo**, **2005g:34221**
Sheremeta, Z. M. *see* **Zabolotskiĭ, N. V.**, **2005g:34222**
Shimomura, Shun On the number of poles of the first Painlevé transcendents and higher order analogues. (English summary) **2005e:34275**
— Lower estimates for the growth of the fourth and the second Painlevé transcendents. (English summary) **2005c:34182**
Siafarikas, Panayiotis D. *see* **Petropoulou, Eugenia N.**, **2005f:34260**
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Wang, Jun[9] (*with* Lü, Wei Ran) The fixed points and hyper-order of solutions of second order linear differential equations with meromorphic coefficients. (Chinese. English and Chinese summaries) **2005b:30032**
Wang, Sheng[1] On factorization of solutions to second order homogeneous linear differential equations. (English summary) **2005f:34253**
Yakovenko, Sergei *see* **Novikov, Dmitri**, **2005g:34071**
Zabolotskiĭ, N. V. (*with* Sheremeta, Z. M.) On the boundedness of the index of the entire solution of a differential equation. (Ukrainian. English, Russian and Ukrainian summaries) **2005g:34222**

34M15 Algebraic aspects (differential-algebraic, hypertranscendence, group-theoretical)

Berkenbosch, Maint Moduli spaces for linear differential equations. **2005k:34338**
Bertrand, Daniel Travaux de J.-P. Ramis sur les équations différentielles linéaires. (English and French summaries) [The works of J.-P. Ramis on linear differential equations] **2005k:34339**
Gao, Ling Yun Algebraic solutions of algebraic differential equations. (English summary) **2005k:34340**
— The order of the solution of a system of complex algebraic differential equations. (Chinese. English and Chinese summaries) **2005k:34341**
van der Hoeven, Joris A differential intermediate value theorem. (English summary) **2005a:34125**

Khèkalo, S. P. Gauge-equivalent deformations of linear ordinary differential operators with constant coefficients. (Russian. English and Russian summaries) **2005g:34226**
Noumi, Masatoshi ★ Painlevé equations through symmetry. **2005b:34183**
(Ramis, Jean-Pierre) *see* **Bertrand, Daniel**, **2005k:34339**
Tajima, Shinichi Inhomogeneous ordinary differential equations and local cohomologies and residues. **2005d:34190**
Tovena, Francesca Fuchsian differential equations on Riemann surfaces with locally meromorphic solutions. (English summary) **2005k:34342**

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Bouffet, Magali Factorization of differential operators and application to differential Galois theory. **2005e:34268**
Câmara, Leonardo M. Invariants of germs of analytic differential equations in the complex plane. (English and Portuguese summaries) **2005k:32040**
Konopel'chenko, B. G. (*with* Martínez Alonso, Luis) Integrable quasiclassical deformations of algebraic curves. (English summary) **2005f:14073**
Lévai, Géza Supersymmetry without Hermiticity. (English summary) **2005h:81139**
Martínez Alonso, Luis *see* **Konopel'chenko, B. G.**, **2005f:14073**
Novikov, Dmitri (*with* Yakovenko, Sergei) Quasialgebraicity of Picard-Vessiot fields. (English and Russian summaries) **2005g:34071**
Ohmiya, Mayumi Covering map and the elliptic Calogero system. (English summary)
Somberg, Petr Higher monogenicity and residue theorem for Rarita-Schwinger operator. (English summary) **2005i:30083**
Suzuki, Masaki (*with* Tahara, Nobuhiko; Takano, Kyoichi) Hierarchy of Bäcklund transformation groups of the Painlevé systems. (English summary) **2005e:37117**
Tahara, Nobuhiko *see* **Suzuki, Masaki et al.**, **2005e:37117**
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Takenawa, Tomoyuki Discrete dynamical systems associated with the configuration space of 8 points in $\mathbb{P}^3(\mathbb{C})$. (English summary) **2005a:14046**
Yakovenko, Sergei *see* **Novikov, Dmitri**, **2005g:34071**

34M25 Formal solutions, transform techniques

Barkatou, Moulay A. (*with* Chyzak, Frédéric; Loday-Richaud, Michèle) Remarques algorithmiques liées au rang d'un opérateur différentiel linéaire. (English and French summaries) [Algorithmic methods involving the rank of a linear differential operator] **2005c:34178**
— On super-irreducible forms of linear differential systems with rational function coefficients. (English summary) **2005b:34184**
Bouffet, Magali Factorization of differential operators and application to differential Galois theory. **2005e:34268**
Čanak, Miloš *see* **Stefanovska, Liljana et al.**, **2005e:34269**
Chyzak, Frédéric *see* **Barkatou, Moulay A. et al.**, **2005c:34178**
Loday-Richaud, Michèle *see* **Barkatou, Moulay A. et al.**, **2005c:34178**
Olivé, C. (*with* Sauzin, David; Seara, Tere M.) Two examples of resurgence. (English summary) **2005k:34343**
Pflügel, Eckhard An improved estimate for the maximal growth order of solutions of linear differential systems. (English summary) **2005g:34227**
Protić, Ljubomir *see* **Stefanovska, Liljana et al.**, **2005e:34269**
Sauzin, David *see* **Seara, Tere M.**, **2005c:34179** *and* **Olivé, C. et al.**, **2005k:34343**
Seara, Tere M. (*with* Sauzin, David) Borel summation and the theory of resurgence. (Catalan) **2005c:34179**
— *see also* **Olivé, C. et al.**, **2005k:34343**
Stefanovska, Liljana (*with* Protić, Ljubomir; Čanak, Miloš) On some approximative methods for solving Vekua complex differential equation. (English summary) **2005e:34269**

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Centazzo, Claudia (*with* Vitale, Enrico M.) Sheaf theory. (*see* **2005k:18001**)
Cheng, Sui Sun *see* **Talwong, Sukrawan et al.**, **2005e:39058**
Costin, Ovidiu (*with* Dupaigne, Louis; Kruskal, Martin D.) Borel summation of adiabatic invariants. (English summary) **2005k:34344**
Diao, Yong-Feng *see* **Jia, Chun-Sheng et al.**, **2005g:81083**
Dunster, T. M. Convergent expansions for solutions of linear ordinary differential equations having a simple pole, with an application to associated Legendre functions. (English summary) **2005h:34231**
Dupaigne, Louis *see* **Costin, Ovidiu et al.**, **2005k:34344**
Huang, Rui-Yao *see* **Jia, Chun-Sheng et al.**, **2005g:81083**
Jia, Chun-Sheng (*with* Diao, Yong-Feng; Li, Min; Yang, Qiu-Bo; Sun, Liang-Tian; Huang, Rui-Yao) Mapping of the five-parameter exponential-type potential model into trigonometric-type potentials. (English summary) **2005g:81083**
Kruskal, Martin D. *see* **Costin, Ovidiu et al.**, **2005k:34344**
Laohakosol, Vichian *see* **Talwong, Sukrawan et al.**, **2005e:39058**
Li, Min *see* **Jia, Chun-Sheng et al.**, **2005g:81083**
Olivé, C. (*with* Sauzin, David; Seara, Tere M.) Resurgence in a Hamilton-Jacobi equation. (English and French summaries) **2005b:37109**
Sauzin, David *see* **Olivé, C. et al.**, **2005b:37109**
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Sun, Liang-Tian *see* **Jia, Chun-Sheng et al.**, **2005g:81083**
Talwong, Sukrawan (*with* Laohakosol, Vichian; Cheng, Sui Sun) Power function solutions of iterative functional differential equations. (English summary) **2005e:39058**
Vitale, Enrico M. *see* **Centazzo, Claudia**, (**2005k:18001**)
Witte, N. S. New transformations for Painlevé's third transcendent. (English summary) **2005c:33016**
Yang, Qiu-Bo *see* **Jia, Chun-Sheng et al.**, **2005g:81083**

34M30 Asymptotics, summation methods

Costin, Ovidiu (*with* Dupaigne, Louis; Kruskal, Martin D.) Borel summation of adiabatic invariants. (English summary) **2005k:34344**
Dunster, T. M. Convergent expansions for solutions of linear ordinary differential equations having a simple pole, with an application to associated Legendre functions (English summary) **2005h:34231**
Dupaigne, Louis *see* **Costin, Ovidiu et al.**, **2005k:34344**
Kleptsyn, V. A. (*with* Rabinovich, B. A.) Analytic classification of Fuchsian singular points. (Russian. Russian summary) **2005i:34119**
Kruskal, Martin D. *see* **Costin, Ovidiu et al.**, **2005k:34344**
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Berry, M. V. Asymptotic dominance by subdominant exponentials. (English summary) **2005f:41081**
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34M35 Singularities, monodromy, local behavior of solutions, normal forms

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34M37 Resurgence phenomena

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34M45 Differential equations on complex manifolds

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34M55 Painlevé and other special equations; classification, hierarchies; isomonodromic deformations

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34M99 None of the above, but in this section

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35–XX Partial differential equations

35–01 Instructional exposition (textbooks, tutorial papers, etc.)

Coleman, Matthew P. ★ An introduction to partial differential equations with MATLAB®. **2005f:35001**
Colton, David L. ★ Partial differential equations. **2005g:35001**
Debnath, Lokenath ★ Nonlinear partial differential equations for scientists and engineers. **2005h:35001**
Duffy, Dean G. ★ Transform methods for solving partial differential equations. **2005d:35001**
Koike, Shigeaki ★ A beginner's guide to the theory of viscosity solutions. **2005d:35002**
MacCluer, Charles R. ★ Boundary value problems and Fourier expansions.
Precup, Radu ★ Lecţii de ecuaţii cu derivate parţiale. (Romanian) [Lectures on partial differential equations]
Samarskiĭ, Aleksandr Andreevich *see* **Tikhonov, Andreĭ Nikolaevich**, **2005c:35001**
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Denkowski, Zdzisław (*with* Migórski, Stanisław; Papageorgiou, Nikolaos S.) ★ An introduction to nonlinear analysis: applications. **2005b:47108**
Howison, S. D. ★ Practical applied mathematics. **2005k:00001**
Migórski, Stanisław *see* **Denkowski, Zdzisław et al.**, **2005b:47108**
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Tveito, Aslak (*with* Winther, Ragnar) ★ Introduction to partial differential equations. **2005g:65002**
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35–02 Research exposition (monographs, survey articles)

Andreu, Fuensanta (*with* Caselles, Vicent; Mazón Ruiz, José M.) ★ Parabolic quasilinear equations minimizing linear growth functionals. **2005c:35002**
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Chipot, Michel ★ ℓ goes to plus infinity. **2005b:35001**
Chudinovich, Igor (*with* Constanda, Christian) ★ Variational and potential methods for a class of linear hyperbolic evolutionary processes. **2005k:35001**
Constanda, Christian *see* **Chudinovich, Igor**, **2005k:35001**
Conte, Robert Exact solutions of nonlinear partial differential equations by singularity analysis. (English summary) **2005b:35002**
Demidenko, Gennadii V. (*with* Uspenskii, Stanislav V.) ★ Partial differential equations and systems not solvable with respect to the highest-order derivative. **2005a:35001**
Frid, Hermano ★ Compacidade compensada aplicada às leis de conservação. (Portuguese) [Compensated compactness applied to conservation laws]
Galaktionov, V. A. (*with* Vázquez, Juan Luis) ★ A stability technique for evolution partial differential equations. **2005b:35003**
— ★ Geometric Sturmian theory of nonlinear parabolic equations and applications. **2005h:35002**
Galkin, V. A. ★ Уравнение Смолуховского. (Russian) [The Smoluchowski equation] **2005i:35001**
Georgiev, Vladimir S. ★ Semilinear hyperbolic equations.
Gilding, Brian H. (*with* Kersner, Robert) ★ Travelling waves in nonlinear diffusion-convection reaction. **2005k:35002**
Hörmander, Lars ★ The analysis of linear partial differential operators. II. **2005g:35002**
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Mitidieri, È. (*with* Pokhozhaev, Stanislav Ivanovich) A priori estimates and the absence of solutions of nonlinear partial differential equations and inequalities. (Russian. English and Russian summaries) **2005d:35004**
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Perthame, Benoît ★ Kinetic formulation of conservation laws. **2005d:35005**
Pokhozhaev, Stanislav Ivanovich *see* **Mitidieri, È.**, **2005d:35004**
Popivanov, Petʺr R. On the tangential oblique derivative problem—methods, results, open problems. (English summary) **2005f:35002**
(Rozhkovskaya, Tamara) *see* **Demidenko, Gennadii V.**, **2005a:35001**
(Shibata, Yoshihiro) *see* **Georgiev, Vladimir S.**
(Sobolev, Sergeĭ L'vovich) *see* **Demidenko, Gennadii V.**, **2005a:35001**
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Vázquez, Juan Luis *see* **Galaktionov, V. A.**, **2005b:35003**
Wen, Guo Chun ★ Linear and quasilinear complex equations of hyperbolic and mixed type. **2005e:35001**

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Ammari, Habib Recovery of small electromagnetic inhomogeneities. (English summary) **2005f:35306**
Anikonov, D. S. (*with* Kovtanyuk, A. E.; Konovalova, D. S.; Nazarene, V. G.; Prothorax, I. V.) Investigation of inverse and other nonclassical problems in the Russian far east. (English summary) **2005f:35307**
Ashyralyev, Allaberen (*with* Sobolevskii, Pavel E.) ★ New difference schemes for partial differential equations. **2005g:65003**
Banks, H. T. Incorporation of uncertainty in inverse problems. (English summary) **2005f:35309**
Bao, Gang[1] Inverse and optimal design problems in diffractive optics. (English summary) **2005f:35310**
Bethuel, Fabrice (*with* Orlandi, Giandomenico) Ginzburg-Landau functionals, phase transitions and vorticity. (English summary) **2005e:35043**
Bove, Antonio (*with* Nishitani, Tatsuo) Necessary conditions for the well posedness of the Cauchy problem for hyperbolic systems. (English summary) **2005a:35181**
Cossio, Jorge Contribution to the study of elliptic partial differential equations. (Spanish. English and Spanish summaries)
Dahlke, Stephan (*with* Maaß, Peter) An outline of adaptive wavelet Galerkin methods for Tikhonov regularization of inverse parabolic problems. (English summary) **2005f:35314**
Desvillettes, Laurent About the use of the Fourier transform for the Boltzmann equation. (English summary) **2005a:35040**
Drábek, Pavel Asymptotic bifurcation problems for quasilinear equations, existence and multiplicity results. (English summary) **2005m:35211**
Ecker, Klaus ★ Regularity theory for mean curvature flow. **2005b:53108**
Giga, Mi-Ho (*with* Giga, Yoshikazu) A PDE approach for motion of phase-boundaries by a singular interfacial energy. **2005e:35032**
Giga, Yoshikazu *see* **Giga, Mi-Ho**, **2005e:35032**
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Iwaniec, Tadeusz (*with* Sbordone, Carlo) New and old function spaces in the theory of PDEs and nonlinear analysis. **2005i:35023**
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Kovtanyuk, A. E. *see* **Anikonov, D. S. et al.**, **2005f:35307**
Kreiss, Heinz-Otto (*with* Lorenz, Jens) ★ Initial-boundary value problems and the Navier-Stokes equations. **2005c:35229**
Kuksin, Sergei B. Fifteen years of KAM for PDE. **2005e:37168**
Leach, J. A. (*with* Needham, D. J.) ★ Matched asymptotic expansions in reaction-diffusion theory. **2005h:35198**
Lorenz, Jens *see* **Kreiss, Heinz-Otto**, **2005c:35229**
Maaß, Peter *see* **Dahlke, Stephan**, **2005f:35314**
Mauceri, Giancarlo Spectral multipliers for the Ornstein-Uhlenbeck operator. (Italian. English and Italian summaries) **2005j:47020**
Melʹnik, V. S. *see* **Zgurovskiĭ, M. Z.**, **2005e:93001**
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Nazarene, V. G. *see* **Anikonov, D. S. et al.**, **2005f:35307**
Needham, D. J. *see* **Leach, J. A.**, **2005h:35198**
Nishitani, Tatsuo *see* **Bove, Antonio**, **2005a:35181**
Orlandi, Giandomenico *see* **Bethuel, Fabrice**, **2005e:35043**
(Priestley, Joseph) *see* **Sommerfeld, Arnold**, **2005g:78001**
Prothorax, I. V. *see* **Anikonov, D. S. et al.**, **2005f:35307**
Rabinovich, Vladimir S. (*with* Roch, Steffen; Silbermann, Bernd) ★ Limit operators and their applications in operator theory. **2005e:47002**
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(Ryan, John) *see* **Problems: Clifford analysis and its applications, open**, **2005g:30062**
Sabatier, P. C. Inverse theory: solving or understanding models? (English summary) **2005f:35329**
(Sandri, Guido) *see* **Sommerfeld, Arnold**, **2005g:78001**
Sauvigny, Friedrich Über nichtlineare elliptische Differentialgleichungssysteme. (English summary) [On nonlinear elliptic differential equations] **2005c:35108**
Sbordone, Carlo *see* **Iwaniec, Tadeusz**, **2005i:35023**
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Sobolevskii, Pavel E. *see* **Ashyralyev, Allaberen**, **2005g:65003**
Sommerfeld, Arnold ★ Mathematical theory of diffraction. **2005g:78001**
(Struppa, Daniele C.) *see* **Problems: Clifford analysis and its applications, open**, **2005g:30062**
Tiba, Dan New results in shape optimization. (English summary) **2005c:35065**
(Voronka, R. O.) *see* **Zgurovskiĭ, M. Z.**, **2005e:93001**
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Zgurovskiĭ, M. Z. (*with* Melʹnik, V. S.) ★ Nonlinear analysis and control of physical processes and fields. **2005e:93001**

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35–03 Historical (must also be assigned at least one classification number from Section 01)

Chalub, Fabio A. C. C. (*with* Zubelli, Jorge P.) Solitons: at the crest of the wave for more than 100 years. (Portuguese. Portuguese summary)
Nirenberg, Louis Some recollections of working with François Treves. (*see* **2005i:35002**)
Zubelli, Jorge P. *see* **Chalub, Fabio A. C. C.**

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Anikonov, D. S. (*with* Kovtanyuk, A. E.; Konovalova, D. S.; Nazarene, V. G.; Prothorax, I. V.) Investigation of inverse and other nonclassical problems in the Russian far east. (English summary) **2005f:35307**
(Baiocchi, Claudio) *see* **Magenes, Enrico**
(Baker, Roger) *see* **Riemann, Georg Friedrich Bernhard**, **2005m:01028**
(Christenson, Charles) *see* **Riemann, Georg Friedrich Bernhard**, **2005m:01028**
Debnath, Lokenath Four major discoveries in applied mathematics during the second half of the twentieth century. (English summary) (*see* **2005m:00007**)

Dłotko, Tadeusz Differential equations in Upper Silesia. (Polish. Polish summary) (*see* 2005b:01052)
Konovalova, D. S. *see* **Anikonov, D. S. et al.**, **2005f:35307**
Kovtanyuk, A. E. *see* **Anikonov, D. S. et al.**, **2005f:35307**
(Leray, Jean) *see* **Meyer, Yves**, (**2005m:35007**)
Magenes, Enrico Opening address of the International Conference on Nonlinear Evolution Problems. (Italian)
Meyer, Yves Jean Leray et la recherche de la vérité. [Jean Leray and the search for truth] (*see* **2005m:35007**)
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35Axx General theory

35A05 General existence and uniqueness theorems

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35C10 Series solutions, expansion theorems

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35C20 Asymptotic expansions

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35Gxx General higher-order equations and systems

35G05 General theory of linear higher-order PDE

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35G10 Initial value problems for linear higher-order PDE, linear evolution equations

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35G20 General theory of nonlinear higher-order PDE

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35G25 Initial value problems for nonlinear higher-order PDE, nonlinear evolution equations

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35Hxx Close-to-elliptic equations

35H10 Hypoelliptic equations

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35H30 Quasi-elliptic equations

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35H99 None of the above, but in this section

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35Jxx Partial differential equations of elliptic type [see also 58J10, 58J20]

35J05 Laplace equation, reduced wave equation (Helmholtz), Poisson equation [see also 31Axx, 31Bxx]

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35J15 General theory of second-order, elliptic equations

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35J55 Boundary value problems for elliptic systems

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35K25 General theory of higher-order, parabolic equations

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35K35 Boundary value problems for higher-order, parabolic equations

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35K40 General theory of parabolic systems of PDE

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35K45 Initial value problems for parabolic systems

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35L50 Boundary value problems for hyperbolic systems of first-order PDE

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Rouvre, E. *see* **Lévi, Laurent et al., 2005k:35296**
Vallet, G. *see* **Lévi, Laurent et al., 2005k:35296**

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Dreher, Michael Local solutions to quasi-linear weakly hyperbolic differential equations. (English summary) **2005h:35250**
Gvazava, Dzhondo The mean value property for nonstrictly hyperbolic second order quasilinear equations and the nonlocal problems. (English and Georgian summaries) **2005h:35240**
Hong, John (*with* Temple, Blake) A bound on the total variation of the conserved quantities for solutions of a general resonant nonlinear balance law. (English summary) **2005k:35262**

Karaguler, Turhan *see* **Rasulov, Mahir et al., 2005a:65089**
Kinoshita, Tamotu (*with* Reissig, Michael) About the loss of derivatives for strictly hyperbolic equations with non-Lipschitz coefficients. **2005h:35215**
Mason, Lionel J. (*with* Nicolas, Jean-Philippe) Conformal scattering and the Goursat problem. (English summary) **2005i:83026**
Nicolas, Jean-Philippe *see* **Mason, Lionel J., 2005i:83026**
Rasulov, Mahir (*with* Karaguler, Turhan; Sinsoysal, Bahaddin) Numerical solution of Cauchy problem for second order nonlinear wave equation with changeable type in a class of discontinues functions. (English summary) **2005a:65089**
Reissig, Michael About strictly hyperbolic operators with non-regular coefficients. **2005f:35189**
— Hyperbolic equations with non-Lipschitz coefficients. (English summary) **2005f:35190**
— *see also* **Kinoshita, Tamotu, 2005h:35215**
Sinsoysal, Bahaddin *see* **Rasulov, Mahir et al., 2005a:65089**
Temple, Blake *see* **Hong, John, 2005k:35262**
Uchikoshi, Keisuke Irregularities of semilinear hyperbolic equations. (English summary) **2005i:35198**

35L82 Pseudohyperbolic equations

Bouziani, Abdelfatah (*with* Temsi, Mohamed Salah) On a pseudohyperbolic equation with a nonlocal boundary condition. (English summary) **2005k:35297**
Kananthai, Amnuay On the diamond heat kernel related to the spectrum. (English summary)
— *see also* **Nonlaopon, K.**
Kostomarov, Dmitriĭ Pavlovich ★ Задача Коши для ультрагиперболических уравнений. (Russian. Russian summary) [The Cauchy problem for ultrahyperbolic equations] **2005c:35213**
— Bounded solutions of an ultrahyperbolic equation in a half-space. (Russian) **2005h:35252**
Nonlaopon, K. (*with* Kananthai, Amnuay) On the ultra-hyperbolic heat kernel related to the spectrum. (English summary)
Öztürk, Sermin *see* **Yıldırım, Hüseyin et al.**
Sarikaya, M. Zeki *see* **Yıldırım, Hüseyin et al.**
Temsi, Mohamed Salah *see* **Bouziani, Abdelfatah, 2005k:35297**
Yıldırım, Hüseyin (*with* Sarikaya, M. Zeki; Öztürk, Sermin) The solutions of the n-dimensional Bessel diamond operator and the Fourier-Bessel transform of their convolution. (English summary)

Items with secondary classifications in 35L82

DeBlassie, Richard Dante Higher order PDEs and symmetric stable processes. (English summary) **2005d:60079**

35L85 Unilateral problems; variational inequalities for hyperbolic PDE [see also 35R35, 49J40]

Bae, Jeong Ja Uniform decay for the unilateral problem associated to the Kirchhoff type wave equations with nonlinear boundary damping. (English summary) **2005e:35170**
Rodrigues, José-Francisco On hyperbolic variational inequalities of first order and some applications. (English summary) **2005c:35214**

Items with secondary classifications in 35L85

Bonfanti, Giovanna (*with* Luterotti, Fabio) Convergence results for a phase transition model with vanishing microscopic acceleration. (English summary) **2005b:80005**
Denkowski, Zdzisław (*with* Migórski, Stanisław) A system of evolution hemivariational inequalities modeling thermoviscoelastic frictional contact. (English summary) **2005m:74069**
Luterotti, Fabio *see* **Bonfanti, Giovanna, 2005b:80005**
Migórski, Stanisław (*with* Ochal, Anna) Hemivariational inequality for viscoelastic contact problem with slip-dependent friction. (English summary) **2005k:74064**
— *see also* **Denkowski, Zdzisław, 2005m:74069**
Ochal, Anna *see* **Migórski, Stanisław, 2005k:74064**

35L90 Abstract hyperbolic evolution equations

Artamonov, N. V. Estimates for solutions of some classes of second-order differential equations in a Hilbert space. (Russian. Russian summary) **2005d:35182**
Guezane-Lakoud, A. Abstract variable domain hyperbolic differential equations. (English summary) **2005j:35159**

Items with secondary classifications in 35L90

Ashyralyev, Allaberen (*with* Sobolevskii, Pavel E.) ★ New difference schemes for partial differential equations. **2005g:65003**
— (*with* Yurtsever, Hasan A.) A note on the second order of accuracy difference schemes for hyperbolic-parabolic equations in a Hilbert space. (English summary) (*see* **2005i:00016**)
Bátkai, András (*with* Engel, Klaus-Jochen) Abstract wave equations with generalized Wentzell boundary conditions. (English summary) **2005g:34124**
Chill, Ralph (*with* Fašangová, Eva) Convergence to steady states of solutions of semilinear evolutionary integral equations. (English summary) **2005i:45013**
Engel, Klaus-Jochen *see* **Bátkai, András, 2005g:34124**
Fašangová, Eva *see* **Chill, Ralph, 2005i:45013**
Favini, Angelo (*with* Gal, Ciprian G.; Goldstein, Gisèle Ruiz; Goldstein, Jerome A.; Romanelli, Silvia) The non-autonomous wave equation with general Wentzell boundary conditions. (English summary) **2005k:34222**
Gal, Ciprian G. *see* **Favini, Angelo et al., 2005k:34222**
Gavrilyuk, Ivan P. (*with* Makarov, Vladimir L.) Algorithms without accuracy saturation for evolution equations in Hilbert and Banach spaces. (English summary) **2005j:65053**
Goldstein, Gisèle Ruiz *see* **Favini, Angelo et al., 2005k:34222**
Goldstein, Jerome A. *see* **Favini, Angelo et al., 2005k:34222**
Hazard, Christophe (*with* Loret, François) Generalized eigenfunction expansions; an application to linear water waves. (*see* **2005b:00020**)
Hidano, Kunio An elementary proof of global or almost global existence for quasi-linear wave equations. (English summary) **2005d:35175**
Ikehata, Ryo L^2-convergence results for linear dissipative wave equations in unbounded domains. (English summary) **2005g:34129**
Jovanović, Boško S. (*with* Lemeshevskiĭ, S. V.; Matus, Petr P.) Global stability of second-order operator-differential equations and three-layer operator-difference schemes. (Russian. English and Russian summaries) **2005d:65119**
Kobayashi, Toshihiro Low-gain adaptive stabilization of semilinear second-order hyperbolic systems. (English summary) **2005f:93148**
Kuzhel, Sergei On conditions for the applicability of the Lax-Phillips scattering scheme to an investigation of an abstract wave equation. (Ukrainian. English and Ukrainian summaries) **2005e:47021**
Lemeshevskiĭ, S. V. *see* **Jovanović, Boško S. et al., 2005d:65119**
Liang, Jin *see* **Xiao, Ti-Jun, 2005e:34173** *and* **2005f:34167**
Loret, François *see* **Hazard, Christophe, (2005b:00020)**
Makarov, Vladimir L. *see* **Gavrilyuk, Ivan P., 2005j:65053**
Martínez Carracedo, Celso *see* **Sanz Alix, Miguel A., 2005g:47025**
Matus, Petr P. *see* **Jovanović, Boško S. et al., 2005d:65119**
Muñoz Rivera, Jaime Edilberto *see* **Pazoto, A. F. et al., 2005e:47105**
Nicaise, Serge Stability and controllability of an abstract evolution equation of hyperbolic type and concrete applications. (English summary) **2005a:93024**
Pazoto, A. F. (*with* Vila Bravo, J. C.; Muñoz Rivera, Jaime Edilberto) Asymptotic stability of semigroups associated to linear weak dissipative systems. (English summary) **2005e:47105**
Rodrigues, Hildebrando M. (*with* Solà-Morales, J.) Smooth linearization for a saddle on Banach spaces. (English summary) **2005k:34231**
Romanelli, Silvia *see* **Favini, Angelo et al., 2005k:34222**
Sanz Alix, Miguel A. (*with* Martínez Carracedo, Celso) Fractional powers of operators and functional calculus. (Spanish. English and Spanish summaries) **2005g:47025**
Sobolevskii, Pavel E. *see* **Ashyralyev, Allaberen, 2005g:65003**
Solà-Morales, J. *see* **Rodrigues, Hildebrando M., 2005k:34231**
Su, Jun *see* **Zhang, Xiao Yan[1] et al.**
Sun, Jing Xian *see* **Zhang, Xiao Yan[1] et al.**
Tanaka, Naoki Nonautonomous abstract Cauchy problems for strongly measurable families. (English summary) **2005h:34156**
— Abstract Cauchy problems for quasi-linear evolution equations in the sense of Hadamard. **2005c:34119**
Vila Bravo, J. C. *see* **Pazoto, A. F. et al., 2005e:47105**
Xiao, Ti-Jun (*with* Liang, Jin) Complete second order differential equations in Banach spaces with dynamic boundary conditions. (English summary) **2005f:34167**
— (*with* Liang, Jin) Second order parabolic equations in Banach spaces with dynamic boundary conditions. (English summary) **2005e:34173**
Yurtsever, Hasan A. *see* **Ashyralyev, Allaberen, (2005i:00016)**
Zhang, Xiao Yan[1] (*with* Sun, Jing Xian; Su, Jun) Periodic boundary value problems for nonlinear second-order integro-differential equations in Banach spaces. (Chinese. English and Chinese summaries)

35L99 None of the above, but in this section

Items with secondary classifications in 35L99

Abeyaratne, Rohan *see* **Weckner, Olaf, 2005h:74038**
Godunov, Sergeĭ Konstantinovich The equations of elasticity with dissipation as a nontrivial example of thermodynamically consistent hyperbolic equations. (English summary) **2005g:74062**
Reich, Simeon (*with* Zaslavski, Alexander J.) A weak ergodic theorem for infinite products of Lipschitzian mappings [MR1960137 (2003m:47100)]. (*see* **2005d:00015**)
Weckner, Olaf (*with* Abeyaratne, Rohan) The effect of long-range forces on the dynamics of a bar. (English summary) **2005h:74038**
Zaslavski, Alexander J. *see* **Reich, Simeon, (2005d:00015)**

35Mxx Partial differential equations of special type (mixed, composite, etc.) {For degenerate types, see 35J70, 35K65, 35L80.}

35M10 PDE of mixed type

Aglyamzyanova, G. N. (*with* Khaĭrullin, R. S.) The Tricomi problem in the class of functions unbounded on the characteristic. (Russian) **2005e:35171**
Amara, Mohamed (*with* Obeid, A.; Vallet, G.) Relaxed formulation and existence result of the degenerated elliptic small disturbance model. (English summary) **2005d:35183**
Ammar, Kaouther (*with* Wittbold, Petra) Existence of renormalized solutions of degenerate elliptic-parabolic problems. (English summary) **2005a:35209**
Andreyanov, Boris P. (*with* Bouhsiss, Fouzia) Uniqueness for an elliptic-parabolic problem with Neumann boundary condition. (English summary) **2005b:35198**
Barros-Neto, José Fundamental solutions for the Tricomi operator: pole in the elliptic region. (English summary) **2005h:35253**
— (*with* Gel′fand, Izrail′ Moiseevich) Fundamental solutions of the Tricomi operator. III. (English summary) **2005m:35200**
Bouhsiss, Fouzia *see* **Andreyanov, Boris P., 2005b:35198**
Chechkin, G. A. *see* **Kondrat′ev, Vladimir, 2005k:35299**
Dzarakhokhov, A. V. (*with* Eleev, V. A.) On a nonlocal boundary value problem for a third-order loaded equation. (Russian. Russian summary)
Eleev, V. A. (*with* Zhemukhova, Z. Kh.) On some boundary value problems for a mixed equation with discontinuous coefficients in a rectangular domain. (Russian. Russian summary)

— *see also* **Dzarakhokhov, A. V.**
Fang, Ming[1] (*with* Gilbert, Robert P.) Compression molding. II. Existence of the solution for a Hele-Shaw type model. (English summary) **2005i:35199**
Filimonova, E. V. An analogue of the Bitsadze-Samarskiĭ problem for the Gellerstedt equation in an unbounded domain. (Russian. English and Russian summaries)
Gel′fand, Izrail′ Moiseevich *see* **Barros-Neto, José, 2005m:35200**
Gilbert, Robert P. *see* **Fang, Ming[1], 2005i:35199**
Hoff, David *see* **Tsyganov, Eugene, 2005e:35172**
Il′yasov, R. R. *see* **Sabitov, K. B., 2005f:35225**
Kapustin, N. Yu. *see* **Moiseev, E. I., 2005k:35300**
Karimov, E. T. About the Tricomi problem for the mixed parabolic-hyperbolic type equation with complex spectral parameter. (English summary) **2005m:35201**
Khaĭrullin, R. S. *see* **Aglyamzyanova, G. N., 2005e:35171**
Kilbas, A. A. (*with* Repin, O. A.) An analogue of the Bitsadze-Samarskiĭ problem for an equation of mixed type with a fractional derivative. (Russian. Russian summary) **2005k:35298**
Kondrat′ev, Vladimir (*with* Chechkin, G. A.) On the asymptotic behavior of solutions of the Lavrent′ev-Bitsadze equation in a semiperforated domain. (Russian. Russian summary) **2005k:35299**
Moiseev, E. I. (*with* Kapustin, N. Yu.) An estimate for the solution of a problem for a parabolic-hyperbolic equation by means of Fourier series. (Russian. Russian summary) **2005k:35300**
Najafov, Khamis M. A boundary value problem with fraction derivatives in the boundary condition for a mixed type second order linear equation with degenerate order. (English summary)
Obeid, A. *see* **Amara, Mohamed et al., 2005d:35183**
Pskhu, A. V. The Frankl′ problem for a hyperbolic-parabolic equation. (Russian. Russian summary) **2005j:35160**
Repin, O. A. *see* **Kilbas, A. A., 2005k:35298**
Sabitov, K. B. (*with* Sharafutdinova, G. G.) The Tricomi problem for an equation of mixed type with two perpendicular lines of degeneracy. (Russian. Russian summary) **2005k:35301**
— (*with* Il′yasov, R. R.) Solution of the Tricomi problem for an equation of mixed type with a singular coefficient by the spectral method. (Russian) **2005f:35225**
Sharafutdinova, G. G. *see* **Sabitov, K. B., 2005k:35301**
Soldatov, A. P. Riemann-Hilbert problems for the Lavrent′ev-Bitsadze system in a mixed domain with a characteristic part of the boundary. (Russian. Russian summary) **2005c:35215**
Tsyganov, Eugene (*with* Hoff, David) Systems of partial differential equations of mixed hyperbolic-parabolic type. (English summary) **2005e:35172**
Vallet, G. *see* **Amara, Mohamed et al., 2005d:35183**
Wen, Guo Chun Uniqueness of oblique derivative problems for second order equations of mixed type with nonsmooth degenerate line. (English summary) **2005b:35199**
Wittbold, Petra *see* **Ammar, Kaouther, 2005a:35209**
Yagdzhyan, K. A. A note on the fundamental solution for the Tricomi-type equation in the hyperbolic domain. (English summary) **2005k:35302**
Zarubin, A. N. An initial-boundary value problem for the Tricomi differential-difference equation in an unbounded domain. (Russian. Russian summary) **2005j:35161**
Zhemukhova, Z. Kh. *see* **Eleev, V. A.**

Items with secondary classifications in 35M10

Aissa, N. (*with* Hamroun, Djamila) Stabilization of a wave-wave system. (English summary) **2005b:93078**
Calabrese, Gioel A remedy for constraint growth in numerical relativity: the Maxwell case. (English summary) **2005h:83003**
Chechkin, G. A. *see* **Kondrat′ev, Vladimir, 2005a:35025**
Demidenko, Gennadii V. (*with* Uspenskii, Stanislav V.) ★ Partial differential equations and systems not solvable with respect to the highest-order derivative. **2005a:35001**
Fu, Wenjiang J. (*with* Zhang, Ji-Min; Pu, Fuquan) Singular perturbation to shock wave solutions of Burger's K-dV equation. **2005c:35253**
Hamroun, Djamila *see* **Aissa, N., 2005b:93078**
Keyfitz, Barbara Lee Self-similar solutions of two-dimensional conservation laws. (English summary) **2005k:35265**
Kondrat′ev, Vladimir (*with* Chechkin, G. A.) Averaging the Lavrent′ev-Bitsadze equation in a partially perforated domain. (Russian. Russian summary) **2005a:35025**
Morawetz, Cathleen Synge Mixed equations and transonic flow. (English summary) **2005f:35259**
Pu, Fuquan *see* **Fu, Wenjiang J. et al., 2005c:35253**
(Rozhkovskaya, Tamara) *see* **Demidenko, Gennadii V., 2005a:35001**
(Sobolev, Sergeĭ L′vovich) *see* **Demidenko, Gennadii V., 2005a:35001**
Tang, Shaoqiang (*with* Zhao, Hui-Jiang) Stability of Suliciu model for phase transitions. (English summary) **2005i:35184**
Uspenskii, Stanislav V. *see* **Demidenko, Gennadii V., 2005a:35001**
Wen, Guo Chun ★ Linear and quasilinear complex equations of hyperbolic and mixed type. **2005e:35001**
Yang, Han Chun (*with* Zhang, Tong[1]) On two-dimensional gas expansion for pressure-gradient equations of Euler system. (English summary) **2005g:35211**
Zhang, Ji-Min *see* **Fu, Wenjiang J. et al., 2005c:35253**
Zhang, Tong[1] *see* **Yang, Han Chun, 2005g:35211**
Zhao, Hui-Jiang *see* **Tang, Shaoqiang, 2005i:35184**

35M20 PDE of composite type

Bougoffa, Lazhar (*with* Moulay, Mohamed Said) A class of composite type equations. (English summary)
Moulay, Mohamed Said *see* **Bougoffa, Lazhar**

Items with secondary classifications in 35M20

Chen, Xinfu (*with* Friedman, Avner) A free boundary problem for an elliptic-hyperbolic system: an application to tumor growth. (English summary) **2005f:35333**
Friedman, Avner *see* **Chen, Xinfu, 2005f:35333**
Idrisov, R. G. *see* **Sabitov, K. B.**
Sabitov, K. B. (*with* Idrisov, R. G.) The maximum principle for a difference system of equations of mixed type and its applications. (Russian)

35Nxx Overdetermined systems [see also 58Hxx, 58J10, 58J15]

35N05 Overdetermined systems with constant coefficients

Kajiwara, Joji (*with* Li, Xiao Dong[2]; Shon, Kwang Ho) Inhomogeneous Cauchy Riemann system in quaternion analysis. (English summary) **2005m:35202**
Li, Xiao Dong[2] *see* **Kajiwara, Joji et al., 2005m:35202**
Shon, Kwang Ho *see* **Kajiwara, Joji et al., 2005m:35202**

Items with secondary classifications in 35N05

Fischer, Bert Nonisotropic Hölder estimates on convex domains of finite type. **2005i:32042**
Le Hung Son (*with* Nguyen Thanh Van) The Hartogs extension theorem for the multi-regular functions taking values in a Clifford algebra. (English summary) **2005g:30060**
Nguyen Thanh Van Some properties of the inhomogeneous generalized Cauchy-Riemann systems in quaternionic algebra and its applications. (English summary) **2005j:30065**
— *see also* **Le Hung Son, 2005g:30060**
Vogt, Dietmar Splitting of exact sequences of Fréchet spaces in the absence of continuous norms. (English summary) **2005i:35029**

35N10 Overdetermined systems with variable coefficients (general)

Anedda, C. A symmetry problem for a singular equation. (English summary) **2005f:35226**
Blank, Ivan (*with* Shahgholian, Henrik) Boundary regularity and compactness for overdetermined problems. (English summary) **2005b:35200**
Hausdorf, Marcus (*with* Seiler, Werner M.) On the numerical analysis of overdetermined linear partial differential systems. (English summary) **2005a:35210**
Kakié, Kunio On regularity of solutions to overdetermined non linear partial differential equations. **2005g:35222**
Seiler, Werner M. *see* **Hausdorf, Marcus, 2005a:35210**
Shahgholian, Henrik *see* **Blank, Ivan, 2005b:35200**

Items with secondary classifications in 35N10

Jacobowitz, Howard (*with* Mendoza, Gerardo A.) Sub-bundles of the complexified tangent bundle. (English summary) **2005a:58030**
Mardare, Sorin The fundamental theorem of surface theory for surfaces with little regularity. (English summary) **2005c:53003**
— On isometric immersions of a Riemannian space with little regularity. (English summary) **2005e:53095**
Mendoza, Gerardo A. *see* **Jacobowitz, Howard, 2005a:58030**

35N15 $\overline{\partial}$-Neumann problem and generalizations; formal complexes [see also 32W05, 32W10, 58J10]

Li, Bao Qin Entire solutions of certain partial differential equations in $\mathbf{C}^n$. (English summary) **2005i:35200**

Items with secondary classifications in 35N15

Abdelkader, Osama (*with* Khidr, Shaban) Solutions to $\overline{\partial}$-equations on strongly pseudo-convex domains with L^p-estimates. (English summary) **2005b:32069**
Cao, Jian Guo (*with* Shaw, Mei-Chi; Wang, Lihe) Estimates for the $\overline{\partial}$-Neumann problem and nonexistence of C^2 Levi-flat hypersurfaces in $\mathbb{C}P^n$. (English summary) **2005h:32093a**
— (*with* Shaw, Mei-Chi; Wang, Lihe) Erratum: "Estimates for the $\overline{\partial}$-Neumann problem and nonexistence of C^2 Levi-flat hypersurfaces in $\mathbb{C}P^n$" [Math. Z. **248** (2004), no. 1, 183–221; MR2092728 (2005h:32093a)]. **2005h:32093b**
Christ, Michael Slow off-diagonal decay for Szegö kernels associated to smooth Hermitian line bundles. (English summary) **2005b:32038**
Cordaro, Paulo D. (*with* da Silva, Evandro R.) Local solvability in corank one involutive real-analytic structures. (English summary) **2005h:35028**
Darko, Patrick W. (*with* Lutterodt, Clement H.) Sobolev space estimates for solutions of the equation $\overline{\partial}u = f$ on polycylinders. (English summary) **2005b:32070**
Ehsani, Dariush Analysis of the $\overline{\partial}$-Neumann problem along a straight edge. (English summary) **2005g:32052**
Fu, Siqi Hearing pseudoconvexity with the Kohn Laplacian. (English summary) **2005i:32044**
Hakobyan, A. (*with* Shahgholian, Henrik) A uniqueness result for an overdetermined problem in non-linear parabolic potential theory. (English summary) **2005i:35284**
Khidr, Shaban *see* **Abdelkader, Osama, 2005b:32069**
Kim, Mijoung Inheritance of noncompactness of the $\overline{\partial}$-Neumann problem. (English summary) **2005h:32092**
Knudsen, Kim M. (*with* Mueller, Jennifer L.; Siltanen, Samuli) Numerical solution method for the dbar-equation in the plane. (English summary) **2005g:65185**
Koenig, Kenneth D. A parametrix for the $\overline{\partial}$-Neumann problem on pseudoconvex domains of finite type. (English summary) **2005k:32051**
Konopel′chenko, B. G. (*with* Moro, Antonio) Quasi-classical $\overline{\partial}$-dressing approach to the weakly dispersive KP hierarchy. (English summary) **2005b:37167**
Kytmanov, A. M. (*with* Myslivets, S. G.; Schulze, Bert-Wolfgang; Tarkhanov, Nikolai) Elliptic problems for the Dolbeault complex. (English summary) **2005k:32005**
Lutterodt, Clement H. *see* **Darko, Patrick W., 2005b:32070**
Malgrange, Bernard On irregular holonomic $\mathscr{D}$-modules. (English and French summaries) **2005i:32033**

Moro, Antonio *see* **Konopel'chenko, B. G., 2005b:37167**
Mueller, Jennifer L. *see* **Knudsen, Kim M. et al., 2005g:65185**
Myslivets, S. G. *see* **Kytmanov, A. M. et al., 2005k:32005**
Schulze, Bert-Wolfgang *see* **Kytmanov, A. M. et al., 2005k:32005**
Shahgholian, Henrik *see* **Hakobyan, A., 2005i:35284**
Shaw, Mei-Chi (*with* Wang, Lihe) Hölder and L^p estimates for $\Box_b$ on CR manifolds of arbitrary codimension. **2005m:32075**
— *see also* **Cao, Jian Guo et al., 2005h:32093a** *and* **2005h:32093b**
Shlapunov, A. A. *see* **Tarkhanov, Nikolai, 2005f:58025**
Siltanen, Samuli *see* **Knudsen, Kim M. et al., 2005g:65185**
da Silva, Evandro R. *see* **Cordaro, Paulo D., 2005h:35028**
Tarkhanov, Nikolai (*with* Shlapunov, A. A.) Green's formulas in complex analysis. **2005f:58025**
— *see also* **Kytmanov, A. M. et al., 2005k:32005**
Wang, Lihe *see* **Cao, Jian Guo et al., 2005h:32093a**; **2005h:32093b** *and* **Shaw, Mei-Chi, 2005m:32075**

35Pxx Spectral theory and eigenvalue problems for partial differential operators [see also 47Axx, 47Bxx, 47F05]

35P05 General spectral theory of PDE

Agranovich, M. S. (*with* Rozenblyum, G. V.) Spectral boundary value problems for a Dirac system with singular potential. (Russian) **2005h:35254**
Amrein, W. O. (*with* Pearson, David B.) M operators: a generalisation of Weyl-Titchmarsh theory. (English summary) **2005d:35184**
Chill, Ralph (*with* Fašangová, Eva; Metafune, Giorgio; Pallara, Diego) The sector of analyticity of the Ornstein-Uhlenbeck semigroup on L^p spaces with respect to invariant measure. (English summary) **2005k:35303**
(Conca, Carlos) *see* **Voss, Heinrich, 2005d:35186**
(Durán, Mario) *see* **Voss, Heinrich, 2005d:35186**
Fašangová, Eva *see* **Chill, Ralph et al., 2005k:35303**
Filinovskiĭ, A. V. On the spectrum of a polyharmonic operator in domains with noncompact boundaries. (Russian. Russian summary) **2005b:35201**
Fīnkel'shteĭn, D. L. The spectral gap inequality in configuration spaces and the concentration properties of a Poisson measure. (Ukrainian. English summary) **2005g:35223**
Friedlander, Leonid Absolute continuity of the spectra of periodic waveguides. (English summary) **2005a:35211**
Grushin, V. V. On the eigenvalues of a finitely perturbed Laplace operator in infinite cylindrical domains. (Russian. Russian summary) **2005g:35224**
Hassell, Andrew (*with* Zelditch, Steve) Quantum ergodicity of boundary values of eigenfunctions. (English summary) **2005h:35255**
Ismatov, M. On a multidimensional nonselfadjoint problem in the theory of heat conduction. (Russian) **2005h:35256**
Kotel'nikova, A. A. On gaps in the spectrum of an elliptic operator on a periodic grid. (Russian)
Kuchment, Peter (*with* Ong, BengSeong) On guided waves in photonic crystal waveguides. (English summary) **2005a:35212**
— On some spectral problems of mathematical physics. (English summary) **2005f:35227**
Metafune, Giorgio *see* **Chill, Ralph et al., 2005k:35303**
Ong, BengSeong *see* **Kuchment, Peter, 2005a:35212**
Pallara, Diego *see* **Chill, Ralph et al., 2005k:35303**
Pearson, David B. *see* **Amrein, W. O., 2005d:35184**
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35P30 Nonlinear eigenvalue problems, nonlinear spectral theory for PDO

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35Qxx Equations of mathematical physics and other areas of application [see also 35J05, 35J10, 35K05, 35L05]

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Debnath, Lokenath ★ Nonlinear partial differential equations for scientists and engineers. **2005h:35001**

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35Q05 Euler-Poisson-Darboux equation and generalizations

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35R05 PDE with discontinuous coefficients or data

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Zou, Xingfu *see* **Ma, Shi Wang, 2005k:34314**

35R12 Impulsive partial differential equations

Items with secondary classifications in 35R12

Skóra, Lidia Monotone iterative technique for impulsive retarded differential-functional equations systems. (English summary) **2005b:35284**

35R15 Partial differential equations on infinite-dimensional (e.g. function) spaces (= PDE in infinitely many variables) [see also 46Gxx, 58D25]

Da Prato, Giuseppe Elliptic operators with infinitely many variables. (English and Spanish summaries) **2005f:35305**
Koroński, Jan Parabolic problem in the space $\mathbb{R}^\infty$. (English summary) **2005i:35275**
Sokolovskiĭ, V. B. The surface Lévy Laplacian L_S and an infinite-dimensional problem with an oblique derivative. (Russian. English and Russian summaries) **2005j:35222**

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Aliev, A. R. Boundary value problems for a class of higher-order operator-differential equations with variable coefficients. (Russian. Russian summary) **2005m:34126**
Artamonov, N. V. Estimates for solutions of some classes of second-order differential equations in a Hilbert space. (Russian. Russian summary) **2005d:35182**
Fuhrman, Marco (*with* Tessitore, Gianmario) Infinite horizon backward stochastic differential equations and elliptic equations in Hilbert spaces. (English summary) **2005b:60167**
Gaspari, Thierry The infinity Laplacian in infinite dimensions. (English summary) **2005f:49076**
Jaruszewska-Walczak, Danuta Difference methods for infinite systems of hyperbolic functional differential equations on the Haar pyramid. (English summary) **2005i:65120**
Kobayasi, Kazuo (*with* Takagi, Satoru) On local center unstable manifolds. **2005h:37186**
Mal′tsev, A. Yu. Essentially infinite-dimensional evolution equations. (Ukrainian. English and Ukrainian summaries) **2005b:37182**
van Neerven, J. M. A. M. (*with* Weis, Lutz) Stochastic integration of functions with values in a Banach space. (English summary) **2005j:60107**
Takagi, Satoru *see* **Kobayasi, Kazuo, 2005h:37186**
Tessitore, Gianmario *see* **Fuhrman, Marco, 2005b:60167**
Weis, Lutz *see* **van Neerven, J. M. A. M., 2005j:60107**

35R20 Partial operator-differential equations (i.e. PDE on finite-dimensional spaces for abstract space valued functions) [see also 34Gxx, 47A50, 47D03, 47D06, 47D09, 47H20, 47Jxx]

Aibeche, Aissa Fredholmness of an abstract differential equation of elliptic type. (English summary) **2005d:35262**
Aliyev, Vugar S. On completeness of elementary solutions of the fourth order homogeneous operator-differential equations of the elliptic type. (English summary)
Falaleev, M. V. (*with* Romanova, Olga A.; Sidorov, Nikolaĭ Aleksandrovich) Generalized Jordan sets in the theory of singular partial differential-operator equations. (English summary) **2005d:35263**
Gadoev, M. G. (*with* Konobulov, S. I.) Coercive solvability of elliptic operators in Banach spaces. (Russian. Russian summary) **2005b:35285**
Jafarov, Ilgar J. *see* **Mirzoev, S. S.**
Konobulov, S. I. *see* **Gadoev, M. G., 2005b:35285**
Mirzoev, S. S. (*with* Jafarov, Ilgar J.) On solvability of one boundary-value problem for the second order operator-differential equation. (English summary)
Romanova, Olga A. *see* **Falaleev, M. V. et al., 2005d:35263**
Sidorov, Nikolaĭ Aleksandrovich *see* **Falaleev, M. V. et al., 2005d:35263**

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Abbasov, Adalat Sh. Conditions of correct solvability of a boundary value problem for one class of third order operator-differential equation. (English summary) **2005d:34121**
Aliev, A. R. Boundary value problems for a class of higher-order operator-differential equations with variable coefficients. (Russian. Russian summary) **2005m:34126**
— To the theory of solvability of the second order operator—differential equations with discontinuous coefficients. (English summary) **2005f:34161**
Chizh, E. A. *see* **Pavlenko, V. N., 2005d:47109**
Cho, Yeol Je *see* **Guo, Dajun et al., 2005f:47001**
Christiansen, T. (*with* Joshi, M. S.) Scattering on stratified media: the microlocal properties of the scattering matrix and recovering asymptotics of perturbations. (English and French summaries) **2005b:35210**
Dautray, Robert (*with* Díaz Díaz, Jesús Ildefonso) Agir pour conserver l'environnement? Réflexions générales et analyse mathématique de deux problèmes concrets. [Acting to preserve the environment? General reflections and mathematical analysis of two concrete problems] (*see* **2005h:00013**)
Díaz Díaz, Jesús Ildefonso *see* **Dautray, Robert, (2005h:00013)**
Favini, Angelo (*with* Lorenzi, Alfredo) Identification problems for singular integro-differential equations of parabolic type. II. (English summary) **2005c:93029**
Guo, Dajun (*with* Cho, Yeol Je; Zhu, Jiang[2]) ★ Partial ordering methods in nonlinear problems. **2005f:47001**
Joshi, M. S. *see* **Christiansen, T., 2005b:35210**
Klibanov, Michael V. (*with* Timonov, A. A.) A unified framework for constructing globally convergent algorithms for multidimensional coefficient inverse problems. (English summary) **2005h:65155**
Lorenzi, Alfredo *see* **Favini, Angelo, 2005c:93029**
Pavlenko, V. N. (*with* Chizh, E. A.) Regularization for equations with discontinuous noncoercive operators. (Russian. Russian summary) **2005d:47109**
Timonov, A. A. *see* **Klibanov, Michael V., 2005h:65155**
Wei, Wei (*with* Xiang, Xiao Ling) Anti-periodic solutions for first and second order nonlinear evolution equations in Banach spaces. (English summary) **2005a:34088**
Xiang, Xiao Ling *see* **Wei, Wei, 2005a:34088**
Zhu, Jiang[2] *see* **Guo, Dajun et al., 2005f:47001**

35R25 Improperly posed problems for PDE

Blokhin, A. M. (*with* Dorovskii, S. V.; Ovechkin, E. V.) Stability of shock waves in layered structures. II. (English summary) **2005e:35236**
Dinh Nho Hào A variational method for a domain identification problem for a parabolic equation. (English summary) (*see* **2005d:00012**)
Dorovskii, S. V. *see* **Blokhin, A. M. et al., 2005e:35236**
Makhmudov, O. I. The Cauchy problem for a system of equations in the theory of elasticity and thermoelasticity in space. (Russian) **2005e:35237**
Mel′nikova, I. V. Semigroup regularization of differential problems. (Russian) **2005g:35293**
Ovechkin, E. V. *see* **Blokhin, A. M. et al., 2005e:35236**
Semerich, Yu. S. The construction of loci with a cyclical symmetry by the R-functions. (English and Lithuanian summaries)
Sokolovskiĭ, V. B. Integral representation of solutions of a problem with an oblique derivative. (Russian. English and Russian summaries)

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Alifanov, O. M. (*with* Nenarokomov, A. V.; Budnik, S. A.; Michailov, V. V.; Ydin, V. M.) Identification of thermal properties of materials with applications for spacecraft structures. (English summary) **2005f:35125**
Amara, Mohamed (*with* Obeid, A.; Vallet, G.) Relaxed formulation and existence result of the degenerated elliptic small disturbance model. (English summary) **2005d:35183**
Bellassoued, Mourad Global logarithmic stability in inverse hyperbolic problem by arbitrary boundary observation. (English summary) **2005f:35311**
Ben-Haj-Yedder, Adel (*with* Cancès, Eric; Le Bris, Claude) Mathematical remarks on the optimized effective potential problem. (English summary) **2005f:35262**
Bressan, Alberto A lemma and a conjecture on the cost of rearrangements. **2005a:35187**
— An ill posed Cauchy problem for a hyperbolic system in two space dimensions. **2005a:35186**
Budnik, S. A. *see* **Alifanov, O. M. et al., 2005f:35125**
Burq, Nicolas (*with* Gérard, Patrick; Tzvetkov, Nickolay) The Cauchy problem for the nonlinear Schrödinger equation on a compact manifold. (English summary) **2005k:35369**
Byers, Peter Spiked traveling waves and ill-posedness for the Camassa-Holm equation on the circle. (English summary) **2005k:35351**
Cancès, Eric *see* **Ben-Haj-Yedder, Adel et al., 2005f:35262**
Chen, Yu Zhi Instability of standing wave for nonlinear Klein-Gordon equations with double potentials. (Chinese. English and Chinese summaries)
Christ, Michael (*with* Colliander, James; Tao, Terence C.) Asymptotics, frequency modulation, and low regularity ill-posedness for canonical defocusing equations. (English summary) **2005d:35223**
Colliander, James *see* **Christ, Michael et al., 2005d:35223**
Colombo, Fabrizio (*with* Vespri, Vincenzo) A semilinear integrodifferential inverse problem. (English summary) **2005d:35267**
D'Ancona, Piero (*with* Georgiev, Vladimir S.) Low regularity solutions for the wave map equation into the 2-D sphere. (English summary) **2005k:35280**
Dang Duc Trong *see* **Quan, Pham Hoang, 2005k:35140**
Dinh Nho Hào (*with* Sahli, H.) On a class of severely ill-posed problems. (English summary) **2005k:47027**
Dong, Huai Lin Continuous dependence on the initial-time geometry for backward heat equation with different prescribed data. (Chinese. English and Chinese summaries)
Finch, David V. (*with* Patch, Sarah K.; Rakesh[1]) Determining a function from its mean values over a family of spheres. (English summary) **2005b:35290**
Fu, Chu-Li (*with* Qiu, Chun-Yu; Zhu, You-Bin) Wavelet methods for the sideways heat equation. (English summary) **2005h:65153**
— Simplified Tikhonov and Fourier regularization methods on a general sideways parabolic equation. (English summary) **2005f:65118**
Gan, Zai-hui (*with* Zhang, Jian[1]) Instability of standing waves for Klein-Gordon-Zakharov equations with different propagation speeds in three space dimensions. (English summary) **2005m:35191**
Georgiev, Vladimir S. *see* **D'Ancona, Piero, 2005k:35280**
Gérard, Patrick *see* **Burq, Nicolas et al., 2005k:35369**
Glasman, E. A. (*with* Golovin, Alexander A.; Nepomnyashchy, Alexander A.) Instabilities of wavy patterns governed by coupled Burgers equations. (English summary) **2005i:35244**
Golovin, Alexander A. *see* **Glasman, E. A. et al., 2005i:35244**
Gomes, Diogo Luís Aguiar (*with* Valls, Clàudia) Approximation of ill-posed Boussinesq equations. (English summary) **2005k:35355**
Hayasida, Kazuya An improperly posed estimate for the equation $|u|^\alpha u_t = u_{xx} + F(u)$ $(0 < \alpha < 1)$. (English summary) **2005m:35146**
Hein, Torsten (*with* Hofmann, Bernd) On the nature of ill-posedness of an inverse problem arising in option pricing. (English summary) **2005e:91079**
Hofmann, Bernd *see* **Hein, Torsten, 2005e:91079**
Hrycak, Tomasz (*with* Isakov, Victor) Increased stability in the continuation of solutions to the Helmholtz equation. (English summary) **2005f:35051**
Imanuvilov, Oleg Yurievich (*with* Yamamoto, Masahiro) Carleman estimates for the non-stationary Lamé system and the application to an inverse problem. (English summary) **2005k:35429**
Isakov, Victor *see* **Hrycak, Tomasz, 2005f:35051**
Johansson, Tomas An iterative procedure for solving a Cauchy problem for second order elliptic equations. (English summary) **2005g:65097**

Kaiser, Ralf (*with* Neudert, Michael) A non-standard boundary value problem related to geomagnetism. (English summary) **2005h:35335**
Kamotskiĭ, V. V. (*with* Lebeau, Gilles) On 2D Rayleigh-Taylor instabilities. **2005k:76049**
Kengne, Emmanuel Envelope modulational instability in the nonlinear dissipative transmission line. (English and Ukrainian summaries)
Klibanov, Michael V. (*with* Timonov, A. A.) On the mathematical treatment of time reversal. (English summary) **2005c:35294**
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Liu, Chang Chun Instability of traveling waves for a generalized diffusion model in population problems. (English summary)
Masood, Khalid (*with* Zaman, F. D.) Initial inverse problem in a two-layer heat conduction model. (English and Arabic summaries) **2005c:80007**
Métivier, Guy Exemples d'instabilités pour des équations d'ondes non linéaires (d'après G. Lebeau). (French summary) [Examples of instabilities for nonlinear wave equations (following G. Lebeau)] **2005k:35287**
Michailov, V. V. *see* **Alifanov, O. M. et al., 2005f:35125**
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Nepomnyashchy, Alexander A. *see* **Glasman, E. A. et al., 2005i:35244**
Neudert, Michael *see* **Kaiser, Ralf, 2005h:35335**
Nguyen Cam (*with* Nguyen Van Nhan; Pham Ngoc Dinh, Alain) The backward heat equation: regularization by cardinal series. (English summary) **2005h:35135**
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Obeid, A. *see* **Amara, Mohamed et al., 2005d:35183**
Ohta, Masahito (*with* Todorova, Grozdena) Strong instability of standing waves for nonlinear Klein-Gordon equations. (English summary) **2005k:35289**
Padrón, Víctor Effect of aggregation on population revovery modeled by a forward-backward pseudoparabolic equation. (English summary) **2005c:35172**
Patch, Sarah K. *see* **Finch, David V. et al., 2005b:35290**
Pego, Robert L. (*with* Sun, S. M.) On the transverse linear instability of solitary water waves with large surface tension. (English summary) **2005i:35221**
Pham Ngoc Dinh, Alain *see* **Nguyen Cam et al., 2005h:35135**
Popivanov, Petr R. On the tangential oblique derivative problem—methods, results, open problems. (English summary) **2005f:35002**
Qiu, Chun-Yu *see* **Fu, Chu-Li et al., 2005h:65153**
Quan, Pham Hoang (*with* Dang Duc Trong) Temperature determination from interior measurements: the case of temperature nonlinearly dependent heat source. (English summary) **2005k:35140**
Rakesh[1] *see* **Finch, David V. et al., 2005b:35290**
Romanov, V. G. (*with* Yamamoto, Masahiro) On the determination of wave speed and potential in a hyperbolic equation by two measurements. (English summary) **2005f:35328**
Sahli, H. *see* **Dinh Nho Hào, 2005k:47027**
Shcheglov, Alekseĭ Yur'evich (*with* Viktorova, I. V.) Numerical reconstitution of a nonlinear source in a hyperbolic equation. (English summary) **2005b:65104**
Softova, L. G. Degenerate parabolic oblique derivative problem. (English summary) **2005d:35102**
Solov'eva, S. I. *see* **Tuikina, S. R., 2005h:80016**
Sun, S. M. *see* **Pego, Robert L., 2005i:35221**
Tao, Terence C. *see* **Christ, Michael et al., 2005d:35223**
Timonov, A. A. *see* **Klibanov, Michael V., 2005c:35294**
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Tuikina, S. R. (*with* Solov'eva, S. I.) Numerical determination of two characteristics of a compressible ion exchanger. (English summary) **2005h:80016**
Tutschke, Wolfgang Associated partial differential operators—applications to well- and ill-posed problems. (English summary) **2005h:35005**
Tzvetkov, Nickolay *see* **Burq, Nicolas et al., 2005k:35369**
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Vasin, V. V. Regularization and iterative approximation for linear ill-posed problems in the space of functions of bounded variation. (English summary) **2005b:65068**
Vespri, Vincenzo *see* **Colombo, Fabrizio, 2005d:35267**
Viktorova, I. V. *see* **Shcheglov, Alekseĭ Yur'evich, 2005b:65104**
Yamamoto, Masahiro *see* **Romanov, V. G., 2005f:35328** *and* **Imanuvilov, Oleg Yurievich, 2005k:35429**
Ydin, V. M. *see* **Alifanov, O. M. et al., 2005f:35125**
Zaman, F. D. *see* **Masood, Khalid, 2005c:80007**
Zhang, Jian[1] *see* **Gan, Zai-hui, 2005m:35191**
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35R30 Inverse problems (undetermined coefficients, etc.) for PDE

Abasheeva, N. L. Some inverse problems for parabolic equations with changing time direction. (English summary) **2005e:35238**
Akhundov, Adalat Ya. Determination of a coefficient at higher derivatives in parabolic type semilinear equation. (English summary)
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Alessandrini, Giovanni (*with* Rondi, Luca) Determining a sound-soft polyhedral scatterer by a single far-field measurement. (English summary) **2005i:35276**
Alvarez Acevedo, Nancy I. (*with* Roberty, Nilson C.; Silva Neto, Antônio J.) A one-dimensional inverse radiative transfer problem with time-varying boundary conditions. (English summary) **2005b:35286**
Alves, Carlos J. S. (*with* Serranho, P.) On the identification of the flatness of a sound-hard acoustic crack. (English summary) **2005i:35277**
— (*with* Silvestre, Ana Leonor) On the determination of point-forces on a Stokes system. (English summary) **2005b:35287**
Ammari, Habib Recovery of small electromagnetic inhomogeneities. (English summary) **2005f:35306**
— (*with* Kang, Hyeonbae) Reconstruction of conductivity inhomogeneities of small diameter via boundary measurements. **2005d:35264**
— (*with* Uhlmann, Gunther) Reconstruction of the potential from partial Cauchy data for the Schrödinger equation. (English summary) **2005h:35351**
Anar, İbrahim Ethem *see* **Ateş, Ülkü, 2005f:35308**
Anikonov, D. S. (*with* Kovtanyuk, A. E.; Konovalova, D. S.; Nazarene, V. G.; Prothorax, I. V.) Investigation of inverse and other nonclassical problems in the Russian far east. (English summary) **2005f:35307**
Anikonov, Yu. E. Inverse problems for evolution and differential-difference equations with a parameter. (English summary) **2005d:35265**
Arens, Tilo (*with* Kirsch, Andreas) The factorization method in inverse scattering from periodic structures. (English summary) **2005a:35275**
Astala, Kari (*with* Päivärinta, Lassi; Lassas, Matti) Calderón's inverse problem for anisotropic conductivity in the plane. (English summary) **2005k:35421**
Ateş, Ülkü (*with* Anar, İbrahim Ethem) Eigenvalues of the far field operator for time harmonic acoustic waves by an inhomogeneous medium and inverse scattering theory. (English summary) **2005f:35308**
Ayapbergenova, A. T. *see* **Kabanikhin, S. I., 2005f:35321**
Azari, Hossein (*with* Li, Changjun[1]; Nie, Yi Yong; Zhang, Shu Hua[3]) Determination of an unknown coefficient in a parabolic inverse problem. (English summary) **2005e:35239**
Baconneau, Olivier (*with* van den Berg, Jan Bouwe; Brauner, Claude-Michel; Hulshof, Josephus) Multiplicity and stability of travelling wave solutions in a free boundary combustion-radiation problem. (English summary) **2005c:35288**
Banks, H. T. Incorporation of uncertainty in inverse problems. (English summary) **2005f:35309**
Bao, Gang[1] Inverse and optimal design problems in diffractive optics. (English summary) **2005f:35310**
Baran, Emine Can (*with* Fatullayev, Afet Golayoglu) Determination of an unknown source parameter in two-dimensional heat equation. (English summary)
Baras, John S. (*with* Berenstein, Carlos A.; Gavilánez, Franklin) Continuous and discrete inverse conductivity problems. (English summary) **2005g:35294**
Bardakov, V. G. On a relation between the Arikonov-Amirov identity and the Pestov identity. (Russian. Russian summary) **2005e:35240**
Belhachmi, Zakaria (*with* Bucur, Dorin) Détection et approximation de défauts non-réguliers. (English and French summaries) [Non-smooth defect identification and approximation] **2005k:35422**
Bellassoued, Mourad Global logarithmic stability in inverse hyperbolic problem by arbitrary boundary observation. (English summary) **2005f:35311**
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Bîlă, Nicoleta Application of symmetry analysis to a PDE arising in the car windshield design. (English summary) **2005h:35355**
Bonneau, Robert J. *see* **Cheney, Margaret, 2005m:35308**
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Bugueva, T. V. Some inverse problems for acoustic equation in cylindrical domain. (English summary) **2005i:35279**
Buikis, Andris (*with* Guseĭnov, Sh. È.) Conservative averaging method for solutions of inverse problems for heat equation. (*see* **2005a:00022**)
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Cheney, Margaret (*with* Bonneau, Robert J.) Imaging that exploits multipath scattering from point scatterers. (English summary) **2005m:35308**
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35R45 Partial differential inequalities

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35R50 Partial differential equations of infinite order

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35R60 Partial differential equations with randomness [see also 60H15]

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35R99 None of the above, but in this section

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37A10 One-parameter continuous families of measure-preserving transformations

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37A15 General groups of measure-preserving transformations [See mainly 22Fxx]

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37A17 Homogeneous flows [see also 22Fxx]

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37A20 Orbit equivalence, cocycles, ergodic equivalence relations

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37A25 Ergodicity, mixing, rates of mixing

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37A40 Nonsingular (and infinite-measure preserving) transformations

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37A45 Relations with number theory and harmonic analysis [see also 11Kxx]

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37A50 Relations with probability theory and stochastic processes [see also 60Fxx and 60G10]

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37A55 Relations with the theory of C^*-algebras [See mainly 46L55]

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37B20 Notions of recurrence

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37B25 Lyapunov functions and stability; attractors, repellers

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37C05 Smooth mappings and diffeomorphisms

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37C10 Vector fields, flows, ordinary differential equations

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37C20 Generic properties, structural stability

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37C25 Fixed points, periodic points, fixed-point index theory

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37C35 Orbit growth

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37C40 Smooth ergodic theory, invariant measures [see also 37Dxx]

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37C45 Dimension theory of dynamical systems

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37C75 Stability theory

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37C80 Symmetries, equivariant dynamical systems

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37C85 Dynamics of group actions other than Z and R, and foliations [See mainly 22Fxx, and also 57R30, 57Sxx]

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37Dxx Dynamical systems with hyperbolic behavior

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37D05 Hyperbolic orbits and sets

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37D10 Invariant manifold theory

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37D15 Morse-Smale systems

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37E15 Combinatorial dynamics (types of periodic orbits)

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37E35 Flows on surfaces

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37E45 Rotation numbers and vectors

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37F40 Geometric limits

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37F50 Small divisors, rotation domains and linearization; Fatou and Julia sets

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37F75 Holomorphic foliations and vector fields [see also 32M25, 32S65, 34Mxx]

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37G40 Symmetries, equivariant bifurcation theory

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37J15 Symmetries, invariants, invariant manifolds, momentum maps, reduction [see also 53D20]

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37K99 None of the above, but in this section

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37Lxx Infinite-dimensional dissipative dynamical systems [see also 35Bxx, 35Qxx]

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37L10 Normal forms, center manifold theory, bifurcation theory

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37L30 Attractors and their dimensions, Lyapunov exponents

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37L40 Invariant measures

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37L45 Hyperbolicity; Lyapunov functions

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37L50 Noncompact semigroups; dispersive equations; perturbations of Hamiltonian systems

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37L55 Infinite-dimensional random dynamical systems; stochastic equations [see also 35R60, 60H10, 60H15]

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37L60 Lattice dynamics [see also 37K60]

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37L65 Special approximation methods (nonlinear Galerkin, etc.)

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Mischaikow, Konstantin *see* **Day, Sarah L. et al., 2005c:37165**
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37L99 None of the above, but in this section

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37M15 Symplectic integrators

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37M20 Computational methods for bifurcation problems

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Kuznetsov, Yuriĭ Aleksandrovich *see* **Doedel, Eusebius et al., 2005k:37191**
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37M25 Computational methods for ergodic theory (approximation of invariant measures, computation of Lyapunov exponents, entropy)

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37N20 Dynamical systems in other branches of physics (quantum mechanics, general relativity, laser physics)

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39–XX Difference and functional equations

39–01 Instructional exposition (textbooks, tutorial papers, etc.)

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Grove, E. A. (*with* Kostrov, Y.; Ladas, Gerasimos; Predescu, M.) On third-order rational difference equations. IV.
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Rassias, John Michael The Ulam stability problem in approximation of approximately quadratic mappings by quadratic mappings. (English summary)
Robinson, Clark ★ An introduction to dynamical systems: continuous and discrete. **2005k:37001**

39–02 Research exposition (monographs, survey articles)

Items with secondary classifications in 39–02

Cushing, J. M. The LPA model. **2005d:39061**
Kent, C. M. Convergence of solutions in a nonhyperbolic case with positive equilibrium. (English summary) (*see* **2005d:39001**)
Qian, Xiang Zheng (*with* Wang, Zhi Cheng[1]) A survey on oscillation of linear delay difference equations. (English summary) **2005d:39072**
Sofo, Anthony ★ Computational techniques for the summation of series. **2005h:39002**
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39–03 Historical (must also be assigned at least one classification number from Section 01)

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(Abel, Niels Henrik) *see* **Houzel, Christian**, **2005g:01028**
Ger, Roman Functional equations and inequalities. (Polish. Polish summary) (*see* **2005b:01052**)
Houzel, Christian The work of Niels Henrik Abel. **2005g:01028**

39–04 Explicit machine computation and programs (not the theory of computation or programming)

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Hou, Xiaorong (*with* Ng, Che Tat; Zhang, Wei Nian) Convergence of a series whose terms are iterates of quadratic maps. (English summary) **2005k:39029**
Ng, Che Tat *see* **Hou, Xiaorong et al.**, **2005k:39029**
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39–06 Proceedings, conferences, collections, etc.

(Aulbach, Bernd) *see* **Proceedings: Conference on Difference Equations, 6th International**, **2005d:39001** *and* **Proceedings: Conference on Difference Equations and Applications, 8th International**, **2005m:39001**
(Došlý, Ondřej) *see* **Proceedings: Conference on Difference Equations and Applications, 8th International**, **2005m:39001**
(Elaydi, Saber N.) *see* **Difference and differential equations**, **2005c:39001**; **Proceedings: Conference on Difference Equations, 6th International**, **2005d:39001** *and* **Proceedings: Conference on Difference Equations and Applications, 8th International**, **2005m:39001**
(Ladas, Gerasimos) *see* **Difference and differential equations**, **2005c:39001**; **Proceedings: Conference on Difference Equations, 6th International**, **2005d:39001** *and* **Proceedings: Conference on Difference Equations and Applications, 8th International**, **2005m:39001**
(Wu, Jian Hong) *see* **Difference and differential equations**, **2005c:39001**
(Zou, Xingfu) *see* **Difference and differential equations**, **2005c:39001**

Items listed otherwise than by author

Augsburg ★ Proceedings of the Sixth International Conference on Difference Equations. **2005d:39001**
Brno ★ Proceedings of the Eighth International Conference on Difference Equations and Applications. **2005m:39001**
Changsha ★ Difference and differential equations. **2005c:39001**
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Conference on Difference Equations, 6th International ★ Proceedings of the Sixth International Conference on Difference Equations. **2005d:39001**
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(Grammaticos, B.) *see* **Discrete integrable systems**, **2005c:37001**
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(Kosmann-Schwarzbach, Yvette) *see* **Discrete integrable systems**, **2005c:37001**
(Kurasov, Pavel) *see* **Spectral methods for operators of mathematical physics**, **2005f:47002**
Ladas, Gerasimos *see* **Camouzis, Elias et al.**
(Naboko, Sergei N.) *see* **Spectral methods for operators of mathematical physics**, **2005f:47002**
Quinn, E. P. *see* **Camouzis, Elias et al.**
(Tamizhmani, T.) *see* **Discrete integrable systems**, **2005c:37001**

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Discrete integrable systems ★ Discrete integrable systems. **2005c:37001**
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Spectral methods for operators of mathematical physics ★ Spectral methods for operators of mathematical physics. **2005f:47002**

39Axx Difference equations {For dynamical systems, see 37–XX.}

Items with secondary classifications in 39Axx

(Aulbach, Bernd) *see* **Proceedings: Conference on Difference Equations and Applications, 8th International**, **2005m:39001**
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39A05 General

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Ateiwi, Ali Mahmud *see* **Stanzhitskiĭ, A. N.**, **2005g:39003**
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Aykut, N. Existence of positive solutions for boundary value problems of second-order functional difference equations. (English summary) **2005d:39002**
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El Rabih, Abir ★ Solutions surstables de systèmes d'équations aux différences à petit pas de discrétisation. (English. French summary) [Overstable solutions of systems of difference equations with small step size]
Fan, Yong-Hong (*with* Wang, Lin Lin; Li, Wan Tong) Global behavior of a higher order nonlinear difference equation. (English summary) **2005f:39001**
Gao, Qing Ling A class of discrete type Bellman-Bihari inequalities and their application. (Chinese. English and Chinese summaries) **2005e:39003**
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39Bxx Functional equations and inequalities [see also 30D05]

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Riedel, Thomas (*with* Sablik, Maciej) A different version of Flett's mean value theorem and an associated functional equation. (English summary) **2005k:39030**
Risteski, Ice B. (*with* Trenčevski, Kostadin G.; Kovachev, V. Chr.) On a class of parametric partial linear complex vector functional equations. (English summary)
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— Some higher order complex vector functional equations. (English summary) **2005f:39073**
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Tyrala, Iwona The stability of d'Alembert's functional equation. (English summary) **2005m:39057**
Vukman, Joso (*with* Kosi-Ulbl, Irena) Centralisers on rings and algebras. (English summary) **2005m:16044**
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Zhang, Wei Nian *see* **Nikodem, Kazimierz, 2005e:39057**
Zhang, Yu Cheng[2] *see* **Liao, Gong Fu et al., 2005f:39068**

39B55 Orthogonal additivity and other conditional equations

Jung, Soon-Mo (*with* Sahoo, Prasanna K.) Superstability of the generalized orthogonality equation on restricted domains. (English summary) **2005f:39076**
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Ger, Roman Fischer-Muszély additivity on abelian groups. (English summary) **2005i:39028**
Tomás, Maria Santos Incenters in real normed spaces. (English summary) **2005d:39098**

39B62 Functional inequalities, including subadditivity, convexity, etc. [see also 26A51, 26B25, 26Dxx]

Fechner, Włodzimierz On functions with the Cauchy difference bounded by a functional. (English summary) **2005k:39036**
Găvruța, P. On the Hyers-Ulam-Rassias stability of the quadratic mappings. (English summary) **2005f:39077**

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Baron, Karol (*with* Jarczyk, Witold) Random-valued functions and iterative functional equations. (English summary) **2005b:39028**
Boros, Zoltán Systems of generalized translation equations on a restricted domain. (English summary) **2005i:39026**
Cao, Jiling (*with* Moors, Warren B.) Separate and joint continuity of homomorphisms defined on topological groups. (English summary) **2005e:54038**
Chen, Wen Ying Some remarks on higher order Poincaré inequalities. (Chinese. English and Chinese summaries)
Comănescu, D. (*with* Dragomir, Sever Silvestru; Pearce, Charles E. M.) Geometric means, index mappings and entropy. (English summary) **2005c:26044**
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Czinder, Péter (*with* Páles, Zsolt) An extension of the Hermite-Hadamard inequality and an application for Gini and Stolarsky means. (English summary) **2005d:26020**
Dragomir, Sever Silvestru A converse of the Jensen inequality for convex mappings of several variables and applications. (English summary) **2005a:26023**
— *see also* **Comănescu, D. et al., 2005c:26044**
Forti, Gian-Luigi Comments on the core of the direct method for proving Hyers-Ulam stability of functional equations. (English summary) **2005d:39108**
Jarczyk, Witold *see* **Baron, Karol, 2005b:39028**
Matkowski, Janusz The converse theorem for Minkowski's inequality. (English summary) **2005f:26061**
Miura, Takeshi *see* **Takagi, Hiroyuki et al., 2005i:26050**
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Mukherjee, Rathindra Nath[1] Stability of Jensen's equations in two normed spaces. (English summary) **2005g:46019**

Nikodem, Kazimierz (*with* Páles, Zsolt) On t-convex functions. (English summary) **2005f:26030**
Noor, Muhammad Aslam On generalized preinvex functions and monotonicities. (English summary) **2005h:26045**
Páles, Zsolt *see* **Czinder, Péter**, **2005d:26020** *and* **Nikodem, Kazimierz**, **2005f:26030**
Pearce, Charles E. M. *see* **Comănescu, D. et al.**, **2005c:26044**
Rassias, Themistocles M. On the stability of the quadratic functional equation. (English summary) **2005a:39056**
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Takahasi, Sin-Ei *see* **Takagi, Hiroyuki et al.**, **2005i:26050**
Tyrala, Iwona The stability of d'Alembert's functional equation. (English summary) **2005m:39057**
Wang, Feng Yu Gradient estimates of Dirichlet heat semigroups and application to isoperimetric inequalities. (English summary) **2005f:58040**
Wu, Li Ming[1] (*with* Zhang, Zheng-liang) Talagrand's T_2-transportation inequality w.r.t. a uniform metric for diffusions. (English summary) **2005h:60059**
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39B72 Systems of functional equations and inequalities

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— On Hyers-Ulam stability of generalized Wilson's equation. (English summary) **2005j:39022**
— (*with* Elqorachi, Elhoucien; Redouani, Ahmed) On Hyers-Ulam stability of a special case of O'Connor's and Gajda's functional equations. (English summary) **2005k:39037**
Budzik, Dorota On some stability properties of monomial functions. (English summary) **2005d:39106**
Cădariu, Liviu (*with* Radu, Viorel) On the stability of the Cauchy functional equation: a fixed point approach. (English summary) **2005j:39023**
Elqorachi, Elhoucien *see* **Bouikhalene, Belaid et al.**, **2005k:39037**
Jabłoński, Wojciech (*with* Reich, Ludwig) On the form of homomorphisms into the differential group L^1_s and their extensibility. (English summary) **2005m:39050**
Kalinowski, Józef Sur les paires d'équations pré-Schröder et leur équivalence. (English summary) [Pairs of pre-Schröder equations and their equivalence] **2005k:39038**
Kang, Jie-Hyung (*with* Lee, Chang-Ju; Lee, Yang-Hi) A note on the Hyers-Ulam-Rassias stability of a quadratic equation. (English summary) **2005b:39036**
Kocsis, Imre On the stability of a sum form equation in several variables. (English summary) **2005i:39030**
Lee, Chang-Ju *see* **Kang, Jie-Hyung et al.**, **2005b:39036**
Lee, Yang-Hi *see* **Kang, Jie-Hyung et al.**, **2005b:39036**
Nguyen Thanh Long Linear approximation and asymptotic expansion associated with the system of functional equations. (English summary) **2005b:39037**
Park, Chun Gil Stability of quadratic functional equations in Banach modules. (English summary) **2005a:39051**
— Stability of linear operators in a Hilbert module. (English summary)
Popa, Dorian Functional inclusions on square-symmetric groupoids and Hyers-Ulam stability. (English summary) **2005f:39078**
— A stability result for a general linear inclusion. (English summary) **2005f:39079**
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Rassias, John Michael The Ulam stability problem in approximation of approximately quadratic mappings by quadratic mappings. (English summary)
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Baker, John A. A general functional equation and its stability. (English summary) **2005i:39031**
Dontha, S. *see* **Wang, Ke[1] et al.**, **2005b:39025**
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Fechner, Włodzimierz On functions with the Cauchy difference bounded by a functional. (English summary) **2005k:39036**
Gao, Qing Ling A class of discrete type Bellman-Bihari inequalities and their application. (Chinese. English and Chinese summaries) **2005e:39003**
Găvruța, P. On the Hyers-Ulam-Rassias stability of the quadratic mappings. (English summary) **2005f:39077**
Herzog, Gerd Semicontinuous solutions of systems of functional equations. (English summary) **2005b:39033**
Hirasawa, Go *see* **Miura, Takeshi et al.**, **2005e:34263**
Jun, Kil-Woung (*with* Kim, Hark-Mahn; Lee, Don O.) On the Hyers-Ulam-Rassias stability of a modified additive and quadratic functional equation. (English summary) **2005h:39045**
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Kang, Shin Min *see* **Liu, Ze Qing et al.**, **2005e:90148**
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Miura, Takeshi (*with* Hirasawa, Go; Takahasi, Sin-Ei) Ger-type and Hyers-Ulam stabilities for the first-order linear differential operators of entire functions. (English summary) **2005e:34263**
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Shrivastava, Kiran Solution of a problem on mixed stability of Th. M. Rassias. (English summary)
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Sinopoulos, Pavlos Applications of Wilson's functional equation. (English summary) **2005a:39047**
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39B82 Stability, separation, extension, and related topics [see also 46A22]

Akkouchi, Mohamed *see* **Elqorachi, Elhoucien**, **2005j:39025**
Bae, Jae-Hyeong (*with* Park, Won-Gil) On the generalized Hyers-Ulam-Rassias stability in Banach modules over a C^*-algebra. (English summary) **2005m:39051**
Baker, John A. A general functional equation and its stability. (English summary) **2005i:39031**
Batko, Bogdan Stability of Dhombres' equation. (English summary) **2005g:39043**
— On the stability of Mikusiński's equation. (English summary) **2005k:39039**
Bouikhalene, Belaid The stability of some linear functional equations. (English summary) **2005f:39080**
Cădariu, Liviu A general theory of stability for the Cauchy's equation. (English summary) **2005d:39107**
— *see also* **Găvruța, P.**, **2005k:39042**
Chang, Ick-Soon *see* **Jung, Yong-Soo**, **2005m:39055**
Choi, Byung Mun *see* **Lee, Young Whan**, **2005i:39032** *and* **2005k:39043**
Chudziak, Jacek (*with* Tabor, Józef) On the stability of the Gołąb-Schinzel functional equation. (English summary) **2005j:39024**
Chung, Jaeyoung Hyers-Ulam-Rassias stability of Cauchy equation in the space of Schwartz distributions. (English summary) **2005k:39040**
— *see also* **Li, Linsong et al.**, **2005f:39082**
Czerwik, Stefan Some results on the stability of the homogeneous functions. (English sùmmary) **2005k:39041**
Elqorachi, Elhoucien (*with* Akkouchi, Mohamed) On Hyers-Ulam stability of the generalized Cauchy and Wilson equations. (English summary) **2005m:39052**
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Forti, Gian-Luigi Comments on the core of the direct method for proving Hyers-Ulam stability of functional equations. (English summary) **2005d:39108**
Găvruța, P. (*with* Cădariu, Liviu) The generalized stability of a quadratic functional equation. (English summary) **2005k:39042**
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Jabłoński, Wojciech (*with* Pękala, A.) Stability of generalized mean value type functional equation. (English, Russian and Ukrainian summaries) **2005b:39038**
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— (*with* Lee, Yang-Hi) A generalization of the Hyers-Ulam-Rassias stability of the pexiderized quadratic equations. (English summary) **2005d:39109**
— (*with* Kim, Hark-Mahn) Solution of Hyers-Ulam stability problem for generalized Pappus' equation. (English summary) **2005g:39044**
— (*with* Kim, Hark-Mahn) Ulam stability problem for generalized A-quadratic mappings. (English summary) **2005m:39053**
Jung, Soon-Mo Hyers-Ulam stability of Butler-Rassias functional equation. **2005m:39054**
— *see also* **Jun, Kil-Woung et al.**, **2005c:39033**
Jung, Yong-Soo (*with* Chang, Ick-Soon) The stability of a cubic type functional equation with the fixed point alternative. (English summary) **2005m:39055**
— *see also* **Park, Kyoo-Hong**, **2005a:39054**
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Kim, Gwang Hui On the Hyers-Ulam-Rassias stability of functional equations in n-variables. (English summary) **2005g:39045**
— (*with* Lee, Sang Han) Stability of the d'Alembert type functional equations. (English summary) **2005j:39028**
Kim, Hark-Mahn Hyers-Ulam stability of a general quadratic functional equation. (English summary) **2005c:39034**
— *see also* **Jun, Kil-Woung et al.**, **2005g:39044**; **2005h:39045**; **2005j:39027** *and* **2005m:39053**
Kobayashi, Kiyotaka *see* **Hatori, Osamu et al.**, **2005j:39026**
Lee, Don O. *see* **Jun, Kil-Woung et al.**, **2005h:39045**
Lee, Eun Hwi On the solution and stability of the quadratic type functional equations. (English summary) **2005f:39081**
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Lee, Young Whan (*with* Choi, Byung Mun) Stability of a beta-type functional equation with a restricted domain. (English summary) **2005i:39032**
— (*with* Choi, Byung Mun) On the Hyers-Ulam-Rassias stability of the functional equation with a quadratic Jensen type property. (English summary) **2005k:39043**

— Stability of a generalized quadratic functional equation with Jensen type. (English summary) **2005j:39029**
Li, Linsong (*with* Chung, Jaeyoung; Kim, Dohan) Stability of Jensen equations in the space of generalized functions. (English summary) **2005f:39082**
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Miura, Takeshi *see* **Hatori, Osamu et al., 2005j:39026**
Park, Chun Gil Universal Jensen's equations in Banach modules over a C^*-algebra and its unitary group. (English summary) **2005k:39044**
— Hyers-Ulam-Rassias stability of an even functional equation in four variables. (English summary) **2005a:39052**
— Stability of linear functional equations in Banach modules. (English summary) **2005a:39053**
— Multilinear Trif d-mappings in Banach modules over a C^*-algebra. (English summary) **2005m:39056**
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Park, Won-Gil The Jensen's equation in Banach modules over a C^*-algebra. (English summary) **2005a:39055**
— *see also* **Bae, Jae-Hyeong, 2005m:39051**
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Rassias, John Michael Solution of the Ulam stability problem for an Euler type quadratic functional equation. (English summary) **2005g:39046**
— On the Hyers-Ulam stability problem for quadratic multi-dimensional mappings on the Gaussian plane. (English summary) **2005e:39067**
— Asymptotic behavior of mixed type functional equations. (English summary) **2005g:39047**
Rassias, Themistocles M. On the stability of the quadratic functional equation. (English summary) **2005a:39056**
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Tabor, Jacek Stability of the Cauchy functional equation in quasi-Banach spaces. (English summary) **2005h:39047**
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Tyrala, Iwona The stability of d'Alembert's functional equation. (English summary) **2005m:39057**
Vestfrid, Igor A. Linear approximation of approximately linear functions. (English summary) **2005e:39068**

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Bouikhalene, Belaid On Hyers-Ulam stability of generalized Wilson's equation. (English summary) **2005j:39022**
— (*with* Elqorachi, Elhoucien; Redouani, Ahmed) On Hyers-Ulam stability of a special case of O'Connor's and Gajda's functional equations. (English summary) **2005k:39037**
Brzdęk, Janusz (*with* Tabor, Józef) Stability of the Cauchy congruence on restricted domain. (English summary) **2005d:39100**
Budzik, Dorota On some stability properties of monomial functions. (English summary) **2005d:39106**
Choi, Byung Mun *see* **Lee, Young Whan, 2005h:33003**
Czerwik, Stefan (*with* Dłutek, Krzysztof) Pexider difference operator in L^p spaces. (English summary) **2005f:39074**
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Găvruţa, P. On the Hyers-Ulam-Rassias stability of the quadratic mappings. (English summary) **2005f:39077**
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Jun, Kil-Woung (*with* Kim, Hark-Mahn) On the stability of the quadratic equation in Banach modules over a Banach algebra. (English summary) **2005f:39075**
— (*with* Kim, Hark-Mahn) On the Hyers-Ulam stability of a generalized quadratic and additive functional equation. (English summary) **2005k:39009**
Jung, Soon-Mo *see* **Miura, Takeshi et al., 2005f:34139**
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Kocsis, Imre On the stability of a sum form equation in several variables. (English summary) **2005i:39030**
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Lee, Jung-Rye (*with* Shin, Dong-Yun) On the Cauchy-Rassias stability of the Trif functional equation in C^*-algebras. (English summary) **2005d:39103**
Lee, Young Whan (*with* Choi, Byung Mun) The stability of Cauchy's gamma-beta functional equation. (English summary) **2005h:33003**
— *see also* **Kim, Gwang Hui, 2005a:39044**
Miura, Takeshi (*with* Hirasawa, Go; Takahasi, Sin-Ei) Stability of multipliers on Banach algebras. (English summary) **2005f:46097**
— (*with* Jung, Soon-Mo; Takahasi, Sin-Ei) Hyers-Ulam-Rassias stability of the Banach space valued linear differential equations $y' = \lambda y$. (English summary) **2005f:34139**
Park, Chun Gil Linear derivations on C^*-algebras. (English summary) **2005e:47094**
— Generalized Hyers-Ulam-Rassias stability of n-sesquilinear-quadratic mappings on Banach modules over C^*-algebras. (English summary) **2005m:39048**
— Approximate homomorphisms on JB^*-triples. (English summary) **2005m:46113**
— Isomorphisms between unital C^*-algebras. (English summary) **2005k:46140**
Redouani, Ahmed *see* **Bouikhalene, Belaid et al., 2005k:39037**
Roszak, Magdalena *see* **Kubiaczyk, Ireneusz, 2005m:45008**
Shin, Dong-Yun *see* **Lee, Jung-Rye, 2005d:39103**
Sikorska, Justyna Orthogonal stability of the Cauchy functional equation on balls in normed linear spaces. (English summary) **2005d:39105**
Stavroulakis, Ioannis P. Oscillation criteria for delay, difference and functional equations (English summary) **2005d:34144**
Székelyhidi, László Functional equations on hypergroups. (English summary) **2005d:39104**
Tabor, Jacek (*with* Tabor, Józef) Stability of the entropy equation. (English summary) **2005k:39034**
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Vestfrid, Igor A. Almost surjective ε-isometries of Banach spaces. (English summary) **2005f:46028**
— Affine properties and injectivity of quasi-isometries. (English summary) **2005m:46031**

39B99 None of the above, but in this section

Domoshnitsky, Alexander Zeros of solutions of functional equations in the space of discontinuous functions of two variables. (English summary) **2005m:39058**

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Ebanks, Bruce (*with* Székelyhidi, László) On multiplicative and additive differences. (English summary) **2005m:39043**
Ebert, Udo Social welfare, inequality, and poverty when needs differ. (English summary) **2005h:91068**
Hamaya, Yoshihiro Existence of an almost periodic solution in a difference equation with infinite delay. (English summary) **2005c:39002**
Jiang, Ming[1] *see* **Wang, Ge, 2005j:62014**
Kuznetsov, Sergeĭ Petrovich[1] Generalized dimensions of the golden-mean quasiperiodic orbit from renormalization-group functional equation. (English summary) **2005k:37086**
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Wang, Ge (*with* Jiang, Ming[1]) Axiomatic characterization of nonlinear homomorphic means. **2005j:62014**

40–XX Sequences, series, summability

40–01 Instructional exposition (textbooks, tutorial papers, etc.)

Items with secondary classifications in 40–01

Bailey, David H. *see* **Borwein, Jonathan Michael et al., 2005h:11002**
Borwein, Jonathan Michael (*with* Bailey, David H.; Girgensohn, Roland) ★ Experimentation in mathematics. **2005h:11002**
Girgensohn, Roland *see* **Borwein, Jonathan Michael et al., 2005h:11002**

40–02 Research exposition (monographs, survey articles)

Helson, Henry ★ Dirichlet series. **2005h:40001**

40–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 40–03

(Abel, Niels Henrik) *see* **Houzel, Christian, 2005g:01028**
Anderson, Joel Iterated exponentials. **2005j:40001**
Antosik, Piotr (*with* Skórnik, Krystyna) Generalized functions and convergence theory at the Katowice Branch of the Institute of Mathematics of the Polish Academy of Sciences. (Polish. Polish summary) (*see* **2005b:01052**)
(Breger, Herbert) *see* **Leibniz, Gottfried Wilhelm, 2005h:01015**
(Gädeke, Nora) *see* **Leibniz, Gottfried Wilhelm, 2005h:01015**
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(Knobloch, Eberhard) *see* **Leibniz, Gottfried Wilhelm, 2005h:01015**
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40–06 Proceedings, conferences, collections, etc.

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40Axx Convergence and divergence of infinite limiting processes

40A05 Convergence and divergence of series and sequences

Altin, Yavuz *see* **Et, Mikâil et al., 2005g:40003**
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— *see also* **Gürdal, Mehmet et al., 2005g:40004**
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Güncan, A. N. On the statistical convergence in $\mathbb{R}^m$. (English summary) **2005m:40001**
Güngör, Mehmet (*with* Gökhan, Ayşegül) On uniform statistical convergence. (English summary) **2005m:40002**
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40A10 Convergence and divergence of integrals

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40A15 Convergence and divergence of continued fractions [see also 30B70]

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— (*with* Gladun, V. R.) Some sufficient conditions for the convergence and stability of branched continued fractions with alternating partial numerators. (Ukrainian. English, Russian and Ukrainian summaries) **2005k:40002**
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Wexler, Geoffrey *see* **Haydock, Roger et al., 2005b:15048**
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40A20 Convergence and divergence of infinite products

Lampret, Vito Wallis sequence estimated through the Euler-Maclaurin formula: even from the Wallis product π could be computed fairly accurately. (English summary) **2005h:40007**
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Rakha, Medhat A. *see* **Ibrahim, Adel K., 2005j:33003**

40A25 Approximation to limiting values (summation of series, etc.) {For the Euler-Maclaurin summation formula, see 65B15.}

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Dasgupta, Anirban[1] A unified method to sum a variety of infinite series, with applications. (English summary) **2005b:40005**
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40A30 Convergence and divergence of series and sequences of functions

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Wagner-Bojakowska, Elżbieta Remarks on convergence in category. (Polish summary) **2005j:28007**

40A99 None of the above, but in this section

Anderson, Joel Iterated exponentials. **2005j:40001**
Xu, Min[6] Generator polynomial of GMW sequences. (Chinese. English and Chinese summaries)

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Kostyrko, Pavel *see* **Činčura, Juraj et al., 2005b:54037**
Leindler, László Factorization of inequalities. (English summary) **2005a:26030**
Luh, Wolfgang (*with* Trautner, R.) Sharp asymptotics for positive series. (English and Russian summaries) **2005k:26001**
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Sándor, József (*with* Sondow, Jonathan) Corrigendum: "On the irrationality of some alternating series" [Studia Univ. Babeş-Bolyai Math. **33** (1988), no. 4, 8–12; MR1028747 (91c:40003)] by Sándor. **2005m:11137**
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Trautner, R. *see* **Luh, Wolfgang, 2005k:26001**
Zhou, Ping[2] On the irrationality of the multivariate exponential and logarithm series. (English summary)

40B05 Multiple sequences and series (should also be assigned at least one other classification number in this section)

Patterson, Richard F. Four dimensional characterization of bounded double sequences. (English summary) **2005d:40005**
Tsumura, Hirofumi Multiple harmonic series related to multiple Euler numbers. (English summary) **2005b:40006**

Items with secondary classifications in 40B05

Crnjac, M. (*with* Čunjalo, F.; Miller, H. I.) Subsequence characterizations of statistical convergence of double sequences. (English and Serbo-Croatian summaries) **2005e:40012**
Čunjalo, F. *see* **Crnjac, M. et al., 2005e:40012**
Edely, Osama H. H. *see* **Mursaleen, Mohammad, 2005d:40002**
Miller, H. I. *see* **Crnjac, M. et al., 2005e:40012**
Mursaleen, Mohammad (*with* Edely, Osama H. H.) Almost convergence and a core theorem for double sequences. (English summary) **2005d:40002**
Patterson, Richard F. (*with* Rhoades, B. E.) Summability of λ-rearrangements for double sequences. (English summary) **2005j:40004**
Rhoades, B. E. *see* **Patterson, Richard F., 2005j:40004**

40Cxx General summability methods

40C05 Matrix methods

Ahmad, Z. U. (*with* Bataineh, Ahmad H. A.) On generalized spaces of sequences of $\mathscr{B}$-bounded variation. (English summary) **2005h:40009**
Aizpuru Tomás, Antonio (*with* Gutiérrez Dávila, Antonio) Uniform convergence in topological groups. (English summary) **2005m:40005**
Altay, Bilâl (*with* Başar, Feyzı) On reversible matrices. (English summary) **2005h:40010**
Asma Bektaş, Çiğdem On some difference sequence spaces defined by Orlicz functions. (English summary) **2005f:40007**
Aydın, Cafer *see* **Çakan, Celal, 2005k:40004**
Başar, Feyzı *see* **Altay, Bilâl, 2005h:40010**
Bataineh, Ahmad H. A. *see* **Ahmad, Z. U., 2005h:40009**
Çakan, Celal (*with* Aydın, Cafer) On the K_r-core of complex sequences and the absolute equivalence of summability matrices. (English summary) **2005k:40004**
— (*with* Çoşkun, Hüsamettin) A class of matrices mapping σ-core into A-statistical core. (English summary) **2005j:40002**
Chandrasekhara Rao, K. (*with* Singaravel, T. M.) Some matrices of the Mazur type. (English summary) **2005i:40003**
Çolak, Rifat Lacunary strong convergence of difference sequences with respect to a modulus function. (English summary) **2005h:40011**
Çoşkun, Hüsamettin *see* **Çakan, Celal, 2005j:40002**
Dağadur, İlhan On rate summability invariants. (English summary) **2005j:40003**
Duman, O. The effects of matrix summability methods on bounds of function sequences. (English summary) **2005h:40012**
Dutta, Chandana *see* **Mitra, D. K. Ganguly Chandrani, 2005h:40016**
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Jarrah, Abdullah M. (*with* Malkowsky, Eberhard) Ordinary, absolute and strong summability and matrix transformations. (English summary) **2005h:40013**
Karakaya, Vatan θ_σ-summable sequences and some matrix transformations. (English summary) **2005i:40004**
Khan, Mohammad K. *see* **Osikiewicz, Jeffrey A., 2005b:40007**
Kostyrko, Pavel Convergence fields of regular matrix transformations. (English summary) **2005h:40014**
Lal, Shyam (*with* Singh, Prem Narain) On the study of Jacobi series by matrix summability method. (English summary) **2005h:40015**
Lemma, Mulatu Abel-type transformations into G. (English summary) **2005i:40005**
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Malkowsky, Eberhard (*with* Mursaleen, Mohammad) Some matrix transformations between the difference sequence spaces $\Delta c_0(p)$, $\Delta c(p)$ and $\Delta l_\infty(p)$. (English summary) **2005g:40010**
— *see also* **Jarrah, Abdullah M., 2005h:40013** *and* **de Malafosse, Bruno, 2005k:40005**
Mitra, D. K. Ganguly Chandrani (*with* Dutta, Chandana) Some remarks on certain types of continuity. (English summary) **2005h:40016**
Mittal, Madan Lal Absolute matrix summability factors of Fourier series. (English summary) **2005k:40006**
Mursaleen, Mohammad *see* **Malkowsky, Eberhard, 2005g:40010**
Osikiewicz, Jeffrey A. (*with* Khan, Mohammad K.) Inclusion results for convolution submethods. (English summary) **2005b:40007**
Patterson, Richard F. Comparison theorems for four dimensional regular matrices. (English summary) **2005d:40006**
— (*with* Rhoades, B. E.) Summability of λ-rearrangements for double sequences. (English summary) **2005j:40004**
— Four dimensional matrix characterization of absolute summability. (English summary) **2005c:40006**
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Bektaş, Çiğdem A. (*with* Et, Mikâil; Çolak, Rifat) Generalized difference sequence spaces and their dual spaces. (English summary) **2005a:46011**
— *see also* **Et, Mikâil, 2005g:46010**
Chandra, Satish[1] On almost matrix summability of a Fourier series.
Chandrasekhara Rao, K. (*with* Subramanian, Nagarajan) Some difference sequence spaces. (English summary) **2005b:46015**
Çolak, Rifat *see* **Bektaş, Çiğdem A. et al., 2005a:46011**
Dağadur, İlhan Conullity and replaceability of matrices on rate spaces. (English summary) **2005c:46006**
Edely, Osama H. H. *see* **Mursaleen, Mohammad, 2005g:40006**
Esi, Ayhan On a class of new type difference sequence spaces related to the space l^p. (English summary) **2005c:46008**
Et, Mikâil (*with* Bektaş, Çiğdem A.) Generalized strongly (V, λ)-summable sequences defined by Orlicz functions. (English summary) **2005g:46010**
— *see also* **Bektaş, Çiğdem A. et al., 2005a:46011**
Goonatilake, Rohitha Some results on summability of random variables. (English summary) **2005k:60140**
Lashkaripour, Rahmatollah Weighted mean matrix on weighted sequence spaces. (English summary) **2005k:46044**
Lemma, Mulatu Logarithmic matrix transformations into G_w. (English summary) **2005h:40022**
— Logarithmic transformations into l^2. (English summary) **2005f:40001**
— Taylor transformations into G_w. (English summary) **2005i:40001**
de Malafosse, Bruno On matrix transformations and sequence spaces. (English summary) **2005f:46010**
— Sum and product of certain BK spaces and matrix transformations between these spaces. (English summary) **2005d:46007**
— Calculations on some sequence spaces. (English summary) **2005d:46009**
Malkowsky, Eberhard (*with* Savaş, Ekrem) The β-duals of some matrix domains in FK spaces and matrix transformations. (English summary) **2005b:46018**
Mursaleen, Mohammad (*with* Edely, Osama H. H.) Generalized statistical convergence. (English summary) **2005g:40006**
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Patterson, Richard F. Rates of convergence for double sequences. (English summary) **2005c:40002**
— Four dimensional characterization of bounded double sequences. (English summary) **2005d:40005**
— Four dimensional Tauberian theorems via block dominated matrices. (English summary) **2005k:40007**
Révész, Szilárd Gy. On generalized strong A-summability. (English summary) **2005h:40020**
Rhoades, B. E. (*with* Savaş, Ekrem) A summability factor theorem for absolute summability involving almost increasing sequences. (English summary) **2005k:40009**
Savaş, Ekrem *see* **Malkowsky, Eberhard, 2005b:46018** *and* **Rhoades, B. E., 2005k:40009**
Stadtmüller, Ulrich (*with* Tali, Anne) Strong summability in certain families of summability methods. (English summary) **2005m:40008**
Suantai, Suthep Matrix transformations of Orlicz sequence spaces. (English summary) **2005g:46014**
Subramanian, Nagarajan *see* **Chandrasekhara Rao, K., 2005b:46015**
Sudsukh, Chanan (*with* Pantaragphong, Praiboon; Arunphalungsanti, Oravan) Matrix transformations on Cesaro vector-valued sequence space. (English summary) **2005b:46019**
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40C10 Integral methods

Items with secondary classifications in 40C10

Qi, Feng[1] An integral expression and some inequalities of Mathieu type series. (English summary) **2005d:26025**

40C15 Function-theoretic methods (including power series methods and semicontinuous methods)

Items with secondary classifications in 40C15

Balser, Werner Summability of power series that are formal solutions of partial differential equations with constant coefficients. (Russian. Russian summary) **2005k:35032**
Đurčić, Dragan (*with* Torgašev, Aleksandar) $\mathscr{G}$-regular variability and power series. (English summary)
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40Dxx Direct theorems on summability

40D05 General theorems

Green, Ben (*with* Ruzsa, Imre Z.) On the Hardy-Littlewood majorant problem. (English summary) **2005h:40017**
Mishra, Babban Prasad (*with* Pandey, Parthiweshwar Jee) On product summability methods $A_\lambda(C, \alpha, \beta)$ of infinite series. (English summary) **2005i:40006**
Pandey, Parthiweshwar Jee *see* **Mishra, Babban Prasad, 2005i:40006**
Ruzsa, Imre Z. *see* **Green, Ben, 2005h:40017**

40D10 Tauberian constants and oscillation limits

Items with secondary classifications in 40D10

Bučkovska, Aneta *see* **Saneva, Katerina, 2005f:42095**
Saneva, Katerina (*with* Bučkovska, Aneta) Asymptotic behaviour of the distributional wavelet transform at 0. (English summary) **2005f:42095**

40D15 Convergence factors and summability factors

Leindler, László On the absolute Riesz summability factors. (English summary) **2005g:40011**
Rhoades, B. E. (*with* Savaş, Ekrem) A summability factor theorem and applications. (English summary) **2005d:40007**
Savaş, Ekrem *see* **Rhoades, B. E., 2005d:40007**
Sulaiman, W. T. A note on absolute summability factors of infinite series.
— On the absolute weighted mean summability factors. (English summary) **2005e:40007**
— On some generalization on the absolute Norlund summability factors of infinite series. (English summary) **2005f:40008**

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Bor, Hüseyín A study on almost increasing sequences. (English summary) **2005e:40009**
— (*with* Debnath, Lokenath) Quasi β-power increasing sequences. (English summary) **2005i:40010**
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Öğdük, H. N. *see* **Özarslan, H. S., 2005m:40007**
Özarslan, H. S. (*with* Öğdük, H. N.) Generalizations of two theorems on absolute summability methods. (English summary) **2005m:40007**
— A note on $|\overline{N}, p_n|_k$ summability factors. (English summary) **2005f:40012**

40D25 Inclusion and equivalence theorems

Basu, Anindita (*with* Srivastava, P. D.) Δ-lacunary strong A-convergent vector valued difference sequences with respect to a sequence of Orlicz functions and some inclusion relations. (English summary) **2005h:40018**
Kolk, Enno (*with* Mölder, Annemai) Inclusion theorems for some sets of sequences defined by φ-functions. (English summary) **2005g:40012**
Mölder, Annemai *see* **Kolk, Enno, 2005g:40012**
Özarslan, H. S. Inclusion theorems for absolute summability methods. (English summary) **2005b:40008**
Savaş, Ekrem Necessary conditions for inclusion relations for absolute summability. (English summary) **2005d:40008**
Srivastava, P. D. *see* **Basu, Anindita, 2005h:40018**

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Esi, Ayhan On a class of new type difference sequence spaces related to the space l^p. (English summary) **2005c:46008**
Mahanta, Sabita *see* **Tripathy, Binod Chandra, 2005d:46010**
Rhoades, B. E. (*with* Savaş, Ekrem) A summability factor theorem and applications. (English summary) **2005d:40007**
Savaş, Ekrem *see* **Rhoades, B. E., 2005d:40007**
Stadtmüller, Ulrich (*with* Tali, Anne) Strong summability in certain families of summability methods. (English summary) **2005m:40008**
Tali, Anne *see* **Stadtmüller, Ulrich, 2005m:40008**
Tripathy, Binod Chandra (*with* Mahanta, Sabita) On a class of vector-valued sequences associated with multiplier sequences. (English summary) **2005d:46010**

40D99 None of the above, but in this section

Items with secondary classifications in 40D99

Lemma, Mulatu Logarithmic transformations into l^2. (English summary) **2005f:40001**
Mishra, Babban Prasad (*with* Mishra, Suyash Narayan) Some remarks on product summability methods. (English summary) **2005h:40005**
Mishra, Suyash Narayan *see* **Mishra, Babban Prasad, 2005h:40005**

40Exx Inversion theorems

40E05 Tauberian theorems, general

Badiozzaman, A. J. Some one sided Tauberian conditions in Banach lattices. (English summary) **2005d:40009**
Çanak, İbrahim *see* **Dik, Mehmet et al., 2005g:40013**
Dik, Filiz *see* **Dik, Mehmet et al., 2005g:40013**
Dik, Mehmet (*with* Dik, Filiz; Çanak, İbrahim) Classical and neoclassical Tauberian theorems for regularly generated sequences. (English summary) **2005g:40013**
Móricz, Ferenc (*with* Orhan, Cihan) Tauberian conditions under which statistical convergence follows from statistical summability by weighted means. (English summary) **2005h:40019**
Orhan, Cihan *see* **Móricz, Ferenc, 2005h:40019**
Patterson, Richard F. Four dimensional Tauberian theorems via block dominated matrices. (English summary) **2005k:40007**
Videnskiĭ, I. V. A Tauberian theorem for series of orthogonal rational functions. (Russian. English and Russian summaries) **2005k:40008**

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Borwein, David (*with* Kratz, Werner) A one-sided Tauberian theorem for the Borel summability method. (English summary) **2005e:40010**
Fill, James Allen (*with* Flajolet, Philippe; Kapur, Nevin) Singularity analysis, Hadamard products, and tree recurrences. (English summary) **2005h:05012**
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Yakymiv, A. L. Admissible functions for an octant. (Russian. Russian summary) **2005j:60034**

40E15 Lacunary inversion theorems

Bilgin, Tunay Lacunary strong A-convergence with respect to a sequence of modulus functions. (English summary) **2005c:40007**

40F05 Absolute and strong summability

Altin, Yavuz *see* **Güngör, Mehmet et al., 2005g:40014**
Edely, Osama H. H. *see* **Mursaleen, Mohammad et al., 2005i:40007**
Et, Mikâil *see* **Güngör, Mehmet et al., 2005g:40014**
Güngör, Mehmet (*with* Et, Mikâil; Altin, Yavuz) Strongly (V_σ, λ, q)-summable sequences defined by Orlicz functions. (English summary) **2005g:40014**
Lasuriya, R. A. Bounds for groups of deviations of Faber sums, and the strong summability of Faber series on classes of ψ-integrals. (Russian. English and Ukrainian summaries) **2005m:40006**
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Öğdük, H. N. *see* **Özarslan, H. S., 2005m:40007**
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Révész, Szilárd Gy. On generalized strong A-summability. (English summary) **2005h:40020**
Rhoades, B. E. (*with* Savaş, Ekrem) A summability type factor theorem. (English summary) **2005h:40021**
— (*with* Savaş, Ekrem) A summability factor theorem for absolute summability involving almost increasing sequences. (English summary) **2005k:40009**
Savaş, Ekrem On absolute summability factors. (English summary) **2005d:40010**
— *see also* **Rhoades, B. E., 2005h:40021** *and* **2005k:40009**
Soomer, Virge Strong summability defined by p-convex modulus functions and Kuttner's theorem. (English summary) **2005a:40009**
Stadtmüller, Ulrich (*with* Tali, Anne) Strong summability in certain families of summability methods. (English summary) **2005m:40008**
Sulaiman, W. T. On some new absolute multiple summability. IV. **2005i:40008**
Tali, Anne *see* **Stadtmüller, Ulrich, 2005m:40008**
Tripathi, Sanjay A relation between two summability methods. (English summary) **2005m:40009**

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Bor, Hüseyin A study on almost increasing sequences. (English summary) **2005e:40009**
— An application of quasi power increasing sequences. (English summary) **2005f:40009**
Diestel, Joe Orlicz and unconditionally convergent series in L^1. (English summary) **2005g:46032**
Jarrah, Abdullah M. (*with* Malkowsky, Eberhard) Ordinary, absolute and strong summability and matrix transformations. (English summary) **2005h:40013**
Kantawala, P. S. On the generalized absolute Nörlund and Euler summability of orthogonal series. (English summary) **2005f:40011**
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Leindler, László On the absolute Riesz summability factors. (English summary) **2005g:40011**
Malkowsky, Eberhard *see* **Jarrah, Abdullah M., 2005h:40013**
Özarslan, H. S. Inclusion theorems for absolute summability methods. (English summary) **2005b:40008**
Rhoades, B. E. (*with* Savaş, Ekrem) A summability factor theorem and applications. (English summary) **2005d:40007**
Savaş, Ekrem Necessary conditions for inclusion relations for absolute summability. (English summary) **2005d:40008**
— *see also* **Rhoades, B. E., 2005d:40007**
Şimşek, Necip *see* **Karakaya, Vatan, 2005g:46012**
Sulaiman, W. T. On the absolute weighted mean summability factors. (English summary) **2005e:40007**
— On some generalization on the absolute Norlund summability factors of infinite series. (English summary) **2005f:40008**
Türnpu, Heino *see* **Baron, Simson, 2005a:28008**

40Gxx Special methods of summability

40G05 Cesàro, Euler, Nörlund and Hausdorff methods

Andrienko, V. A. (*with* Kovalenko, L. G.) Rate of Cesàro summability of double orthogonal series. (English and Russian summaries) **2005e:40008**
Bor, Hüseyin A study on almost increasing sequences. (English summary) **2005e:40009**
— An application of quasi power increasing sequences. (English summary) **2005f:40009**
Chandra, Satish[1] (*with* Sharma, Manisha) A note on Riesz and (N, p, q) means. (English summary)
Et, Mikâil (*with* Malkowsky, Eberhard) On some second order Cesàro difference spaces of non-absolute type. (English summary) **2005g:40015**
Hong, Yong[2] Strong summability with weights for Cesàro operator on n-sphere. (Chinese. English and Chinese summaries) **2005f:40010**
Kantawala, P. S. On the generalized absolute Nörlund and Euler summability of orthogonal series. (English summary) **2005f:40011**
Kovalenko, L. G. On a representation of negative-order Cesàro means of double orthogonal series. (Russian. English, Russian and Ukrainian summaries) **2005g:40016**
— *see also* **Andrienko, V. A., 2005e:40008**
Leindler, László On the absolute Cesàro summability. (English summary) **2005k:40010**
Malkowsky, Eberhard *see* **Et, Mikâil, 2005g:40015**
Móricz, Ferenc Ordinary convergence follows from statistical summability $(C, 1)$ in the case of slowly decreasing or oscillating sequences. (English summary) **2005k:40011**
Özarslan, H. S. A note on $|\overline{N}, p_n|_k$ summability factors. (English summary) **2005f:40012**
Sharma, Manisha *see* **Chandra, Satish[1]**
Sulaiman, W. T. A study on a generalization concerning inclusion theorems for absolute harmonic-Cesaro method of summation. (English summary)
Szili, László Cesàro summability of Lagrange interpolation on Jacobi roots. (English summary) **2005m:40010**

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Baty, R. S. *see* **Tucker, D. H., 2005h:34070**
Carbone, Luciano (*with* Cardone, G.; Corbo Esposito, A.) Binary digits expansion of numbers: Hausdorff dimensions of intersections of level sets of averages' upper and lower limits. (English summary) **2005i:28016**
Cardone, G. *see* **Carbone, Luciano et al., 2005i:28016**
Chandrasekhara Rao, K. (*with* Subramanian, Nagarajan) On the space of analytic sequences. (English summary) **2005b:46016**
Corbo Esposito, A. *see* **Carbone, Luciano et al., 2005i:28016**
Goginava, Ushangi Cesàro means of double Walsh-Fourier series. (English and Russian summaries) **2005k:42080**
Kara, Hasan *see* **Karakaya, Vatan et al., 2005g:46011**
Karakaya, Vatan (*with* Kara, Hasan; Savaş, Rahmet) On strongly Cesaro convergent sequence spaces defined by Orlicz function. (English summary) **2005g:46011**
Lal, Shyam (*with* Tripathi, Vijay Kumar) The almost (N, p, q) summability of derived series of a Fourier series. (English summary) **2005g:42009**
Leindler, László Refinement of some necessary conditions. (English summary) **2005h:42062**
Móricz, Ferenc Statistical convergence of Walsh-Fourier series. (English summary) **2005m:42051**
Prasad, Kamala *see* **Tripathi, Vagish Narayan**
Savaş, Rahmet *see* **Karakaya, Vatan et al., 2005g:46011**
Stone, Richard I. Operators and divergent series. (English summary) **2005m:11170**
Subramanian, Nagarajan *see* **Chandrasekhara Rao, K., 2005b:46016**
Sulaiman, W. T. On some new absolute multiple summability. IV. **2005i:40008**
— On some generalization on the absolute Norlund summability factors of infinite series. (English summary) **2005f:40008**
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Tripathi, Vagish Narayan (*with* Prasad, Kamala) On the degree of approximation to a function by $T(C, 1)$ means of its Fourier Laguerre series. (English summary)
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Tucker, D. H. (*with* Baty, R. S.) Cesàro-one summability and uniform convergence of solutions of a Sturm-Liouville system. (English summary) **2005h:34070**

40G10 Abel, Borel and power series methods

Borwein, David (*with* Kratz, Werner) A one-sided Tauberian theorem for the Borel summability method. (English summary) **2005e:40010**
Karaev, Mubariz T. Functional analysis proofs of Abel's theorems. (English summary) **2005e:40011**
Kratz, Werner *see* **Borwein, David, 2005e:40010**
Lemma, Mulatu The l^2-translativity of Abel-type transformations. (English summary) **2005i:40009**

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Badalyan, G. V. ★ Quasipower series and quasianalytic classes of functions. (English summary) **2005c:30035**

Badiozzaman, A. J. Some one sided Tauberian conditions in Banach lattices. (English summary) **2005d:40009**

(Chibisov, D. M.) *see* **Badalyan, G. V., 2005c:30035**

Costin, Ovidiu (*with* Dupaigne, Louis; Kruskal, Martin D.) Borel summation of adiabatic invariants. (English summary) **2005k:34344**

Dupaigne, Louis *see* **Costin, Ovidiu et al., 2005k:34344**

Karaev, Mubariz T. *see* **Pehlivan, Serpil, 2005g:47046**

Kruskal, Martin D. *see* **Costin, Ovidiu et al., 2005k:34344**

Lemma, Mulatu Abel-type transformations into G. (English summary) **2005i:40005**

— Logarithmic transformations into l^2. (English summary) **2005f:40001**

Mishra, Babban Prasad (*with* Pandey, Parthiweshwar Jee) On product summability methods $A_\lambda(C,\alpha,\beta)$ of infinite series. (English summary) **2005i:40006**

Pandey, Parthiweshwar Jee *see* **Mishra, Babban Prasad, 2005i:40006**

Pehlivan, Serpil (*with* Karaev, Mubariz T.) Some results related with statistical convergence and Berezin symbols. (English summary) **2005g:47046**

40G99 None of the above, but in this section

Bor, Hüseyin (*with* Debnath, Lokenath) Quasi β-power increasing sequences. (English summary) **2005i:40010**

Crnjac, M. (*with* Čunjalo, F.; Miller, H. I.) Subsequence characterizations of statistical convergence of double sequences. (English and Serbo-Croatian summaries) **2005e:40012**

Čunjalo, F. *see* **Crnjac, M. et al., 2005e:40012**

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Jalal, Tanweer Absolute σ-almost convergence with an index. (English summary) **2005j:40005**

Lemma, Mulatu Logarithmic matrix transformations into G_w. (English summary) **2005h:40022**

Miller, H. I. *see* **Crnjac, M. et al., 2005e:40012**

Natarajan, P. N. Product theorems for certain summability methods in non-Archimedean fields. (English summary) **2005c:40008**

— More about $(\overline{N}, p_n)$ methods in non-Archimedean fields. (English summary) **2005k:40012**

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Leindler, László Necessary conditions with almost monotone sequences about orthogonal series. (English summary) **2005g:42069**

Mishra, Babban Prasad (*with* Mishra, Suyash Narayan) Some remarks on product summability methods. (English summary) **2005h:40005**

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Móricz, Ferenc Theorems relating to statistical harmonic summability and ordinary convergence of slowly decreasing or oscillating sequences. (English summary) **2005g:40005**

Mukheimer, Aiman *see* **Mursaleen, Mohammad et al., 2005i:40007**

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Öğdük, H. N. *see* **Özarslan, H. S., 2005m:40007**

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40H05 Functional analytic methods in summability

Berg, Christian (*with* Durán, Antonio J.) A transformation from Hausdorff to Stieltjes moment sequences. (English summary) **2005j:40006**

Cao, Huai Xin A note on convergence of infinite series in a Banach space. (Chinese. English and Chinese summaries)

Durán, Antonio J. *see* **Berg, Christian, 2005j:40006**

Jarrah, Abdullah M. (*with* Malkowsky, Eberhard) The space $bv(p)$, its β-dual and matrix transformations. (English summary) **2005e:40013**

Malkowsky, Eberhard *see* **Jarrah, Abdullah M., 2005e:40013**

Savaş, Ekrem On the Lacunary strong σ-convergence in some sequence spaces. **2005h:40023**

— (*with* Savaş, Rahmet) Some sequence spaces defined by Orlicz functions. (English summary) **2005f:40013**

Savaş, Rahmet *see* **Savaş, Ekrem, 2005f:40013**

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Ahmad, Z. U. (*with* Bataineh, Ahmad H. A.) On generalized spaces of sequences of $\mathscr{B}$-bounded variation. (English summary) **2005h:40009**

Aizpuru Tomás, Antonio (*with* Gutiérrez Dávila, Antonio) Uniform convergence in topological groups. (English summary) **2005m:40005**

Altin, Yavuz *see* **Et, Mikâil et al., 2005h:46008**

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Aydın, Cafer (*with* Başar, Feyzı) Some new difference sequence spaces. (English summary) **2005e:46009**

— (*with* Başar, Feyzı) On the new sequence spaces which include the spaces c_0 and c. (English summary) **2005d:46004**

Başar, Feyzı *see* **Aydın, Cafer, 2005d:46004** *and* **2005e:46009**

Bataineh, Ahmad H. A. *see* **Ahmad, Z. U., 2005h:40009**

Bilgin, Tunay Some new difference sequences spaces defined by an Orlicz function. (English summary) **2005g:40001**

Boos, J. (*with* Zeltser, M.) Sequences of 0's and 1's. Classes of concrete 'big' Hahn spaces. (English summary) **2005b:46014**

— (*with* Stuart, Christopher E.; Swartz, Charles W.) Gliding hump properties of matrix domains. (English and Russian summaries) **2005i:46005**

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Çolak, Rifat *see* **Gökhan, Ayşegül, 2005e:46010** *and* **2005h:46009**

Dağadur, İlhan C_λ-wedge and weak C_λ-wedge FK-spaces. (English summary) **2005d:46005**

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40J05 Summability in abstract structures [see also 43A55, 46A35, 46B15]

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Tripathi, Vijay Kumar *see* **Lal, Shyam**

41–XX Approximations and expansions {For all approximation theory in the complex domain, see 30E05 and 30E10; for all trigonometric approximation and interpolation, see 42A10 and 42A15; for numerical approximation, see 65Dxx.}

41–01 Instructional exposition (textbooks, tutorial papers, etc.)

Copson, E. T. ★ Asymptotic expansions. **2005k:41001**

Items with secondary classifications in 41–01

Výborný, Rudolf The Weierstrass theorem on polynomial approximation. (English summary)

41–02 Research exposition (monographs, survey articles)

Arcangéli, Rémi (*with* López de Silanes, María Cruz; Torrens, Juan José) ★ Multidimensional minimizing splines. **2005j:41001**
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Li, Wu^3 (*with* Padula, Sharon) Approximation methods for conceptual design of complex systems. (English summary) **2005k:41002**
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(Vetro, Pasquale) *see* **de La Vallée Poussin, Charles-Jean, 2005j:01012**

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de La Vallée Poussin, Charles-Jean, Vol. III *see* **de La Vallée Poussin, Charles-Jean, 2005j:01012**

41–03 Historical (must also be assigned at least one classification number from Section 01)

de Boor, Carl R. (*with* Pinkus, Allan) The B-spline recurrence relations of Chakalov and of Popoviciu. (English summary) **2005d:41001**
Higgins, J. R. Historical origins of interpolation and sampling, up to 1841. (English summary) **2005c:41001**
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Pinkus, Allan *see* **de Boor, Carl R., 2005d:41001**

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41–04 Explicit machine computation and programs (not the theory of computation or programming)

Battles, Zachary (*with* Trefethen, Lloyd N.) An extension of MATLAB to continuous functions and operators. (English summary) **2005e:41001**
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Renka, Robert J. Algorithm 828: DNSPLIN1: discrete nonlinear spline interpolation. (English summary) **2005b:65011**

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(Boyanov, Borislav D.) *see* **Constructive theory of functions, 2005d:41003** *and* **Approximation theory: a volume dedicated to Borislav Bojanov, 2005h:41002**
Bramble, James H. (*with* Cohen, Albert; Dahmen, Wolfgang) ★ Multiscale problems and methods in numerical simulations. **2005b:41001**
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Varna ★ Constructive theory of functions. **2005d:41003**
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41A05 Interpolation [see also 42A15 and 65D05]

Abbasbandy, S. (*with* Fariborzi Araghi, M. A.) The use of the stochastic arithmetic to estimate the value of interpolation polynomial with optimal degree. (English summary) **2005f:41002**
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Baramidze, Victoria (*with* Lai, Ming-Jun) Volume data interpolation using tensor products of spherical and radial splines. (English summary) **2005e:41002**
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— $(0, m)$ Pál-type interpolation on the Möbius transform of roots of unity. (English summary) **2005m:41003**
— $(0, m)$ Pál-type interpolation: interchanging value- and derivative-nodes. (English summary) **2005m:41004**
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Chen, Gong Ning *see* **Zhang, Xiao Nan et al., 2005e:41014** *and* **Hu, Yong Jian et al., 2005j:41003**
Chen, Guang Gui (*with* Fang, Gen Sun) Riesz basis, complete interpolating sequence and multivariate irregular sampling theorem. (English summary) **2005k:41007**
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Feng, Ren-Zhong (*with* Liang, Xue Zhang) Mean square convergence of Hakopian interpolation on the disk. (English summary) **2005g:41005**
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Ganzburg, Michael I. (*with* Revers, Michael) A note on Lagrange interpolation for $|x|^\lambda$ at equidistant nodes. (English summary) **2005g:41006**
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41A30 Approximation by other special function classes

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41A52 Uniqueness of best approximation

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41A55 Approximate quadratures

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— Error inequalities for a quadrature formula and applications. (English summary) **2005i:65032**
— Two sharp inequalities of Simpson type and applications. (English summary) **2005f:26045**
— Error inequalities for a corrected interpolating polynomial. (English summary) **2005c:41044**
— Double integral inequalities and application in numerical integration. (English summary) **2005i:26038**
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41A58 Series expansions (e.g. Taylor, Lidstone series, but not Fourier series)

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Ashrafi, Ashkan (*with* Adhami, Reza; Joiner, Laurie L.; Kaveh, Parisa) Arbitrary waveform DDFS utilizing Chebyshev polynomials interpolation. (English summary) **2005e:94018**
Delladio, Silvano Dilatations of graphs and Taylor's formula: some results about convergence. (English summary) **2005f:28012**
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41A60 Asymptotic approximations, asymptotic expansions (steepest descent, etc.) [see also 30E15]

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41A80 Remainders in approximation formulas

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41A99 Miscellaneous topics

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42–XX Fourier analysis

42–01 Instructional exposition (textbooks, tutorial papers, etc.)

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42–02 Research exposition (monographs, survey articles)

Ali, Syed Twareque *see* **Antoine, Jean-Pierre et al., 2005k:42001**
Antoine, Jean-Pierre (*with* Murenzi, Romain; Vandergheynst, Pierre; Ali, Syed Twareque) ★ Two-dimensional wavelets and their relatives. **2005k:42001**
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42–03 Historical (must also be assigned at least one classification number from Section 01)

Meyer, Yves Compression des images fixes. (French summary) [Compression of fixed images]

Items with secondary classifications in 42–03

Debnath, Lokenath Four major discoveries in applied mathematics during the second half of the twentieth century. (English summary) (*see* **2005m:00007**)
Groemer, H. 100 years of Fourier series and spherical harmonics in convexity. (English summary) **2005e:42010**
Higgins, J. R. Historical origins of interpolation and sampling, up to 1841. (English summary) **2005c:41001**

42–04 Explicit machine computation and programs (not the theory of computation or programming)

Callebaut, D. K. (*with* Karugila, G. K.; Khater, A. H.) Nonlinear Fourier analysis of systems of partial differential equations with computer algebra: survey and new results. (English summary) (*see* **2005m:00007**)
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Joppich, Wolfgang *see* **Wienands, Roman, 2005h:65247**
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42–06 Proceedings, conferences, collections, etc.

(Brandolini, Luca) *see* **Fourier analysis and convexity, 2005c:42001**
(zu Castell, Wolfgang) *see* **Inzell Lectures on Orthogonal Polynomials, 2005j:42002**
(Colzani, Leonardo) *see* **Fourier analysis and convexity, 2005c:42001**
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(Tang, Yuan Yan[1]) *see* **Wavelet analysis and its applications (WAA). Vol. 1, 2, 2005i:42002**
(Travaglini, Giancarlo) *see* **Fourier analysis and convexity, 2005c:42001**
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Chongqing ★ Wavelet analysis and its applications (WAA). Vol. 1, 2. **2005i:42002**
Fourier analysis and convexity ★ Fourier analysis and convexity. **2005c:42001**
Inzell ★ Inzell Lectures on Orthogonal Polynomials. **2005j:42002**
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Items with secondary classifications in 42–06

(Álvarez-Nodarse, Renato) *see* **Laredo Lectures on Orthogonal Polynomials and Special Functions, 2005c:33001**
(Girela Álvarez, Daniel) *see* **Seminar: Mathematical Analysis, 2005i:00017**
(Kulkarni, S. H.) *see* **Linear algebra, numerical functional analysis and wavelet analysis, 2005d:47001**
(López Acedo, Genaro) *see* **Seminar: Mathematical Analysis, 2005i:00017**
(Marcellán, Francisco) *see* **Laredo Lectures on Orthogonal Polynomials and Special Functions, 2005c:33001**
(Namboodiri, M. N. N.) *see* **Linear algebra, numerical functional analysis and wavelet analysis, 2005d:47001**
(Van Assche, Walter) *see* **Laredo Lectures on Orthogonal Polynomials and Special Functions, 2005c:33001**
(Villa Caro, Rafael) *see* **Seminar: Mathematical Analysis, 2005i:00017**

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Kochi ★ Linear algebra, numerical functional analysis and wavelet analysis. **2005d:47001**
Laredo ★ Laredo Lectures on Orthogonal Polynomials and Special Functions. **2005c:33001**
Laredo Lectures on Orthogonal Polynomials and Special Functions ★ Laredo Lectures on Orthogonal Polynomials and Special Functions. **2005c:33001**
Linear algebra, numerical functional analysis and wavelet analysis ★ Linear algebra, numerical functional analysis and wavelet analysis. **2005d:47001**
Malaga ★ Seminar of Mathematical Analysis. **2005i:00017**
Seminar:
Mathematical Analysis ★ Seminar of Mathematical Analysis. **2005i:00017**
Seville ★ Seminar of Mathematical Analysis. **2005i:00017**

42Axx Fourier analysis in one variable

Mejjaoli, Hatem *see* **Mohamed, Hassen Ben et al., 2005j:42001**
Mohamed, Hassen Ben (*with* Mejjaoli, Hatem; Trimèche, Khalifa) Parabolic potentials associated with the product Dunkl operators. (English summary) **2005j:42001**
Trimèche, Khalifa *see* **Mohamed, Hassen Ben et al., 2005j:42001**

42A05 Trigonometric polynomials, inequalities, extremal problems

Badkov, V. M. Orders of the weighted Lebesgue constants for Fourier sums with respect to orthogonal polynomials. (English summary) **2005d:42001**
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Gregorac, R. J. On polynomials with simple trigonometric formulas. (English summary) **2005k:42003**
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Hooda, Nawneet (*with* Ram, Babu) L^p-convergence of Ram and Kumari modified sums. (English summary)
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Legua Fernández, Matilde (*with* Moraño, Jose A.; Sánchez Ruiz, Luis M.) Sine and cosine series representations. (English summary)
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Rauhut, Holger Best time localized trigonometric polynomials and wavelets. (English summary) **2005k:42004**
Sadekova, E. Kh. On some extremal polynomials and their applications to Hausdorff approximations. (Russian. English and Russian summaries) **2005f:42001**
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Azar, Laith Emil Some exact inequalities of Hardy-Littlewood-Polya type for periodic functions. (English summary) **2005h:41018**

Brown, Gavin[1] (*with* Dai, Feng; Móricz, Ferenc) Strong approximation by Fourier-Laplace series on the unit sphere S^{n-1}. (English summary) **2005e:42081**

Cho, Yeol Je *see* **Dragomir, Sever Silvestru et al., 2005d:42007**

Dai, Feng *see* **Brown, Gavin[1] et al., 2005e:42081**

Dragomir, Sever Silvestru (*with* Cho, Yeol Je; Kim, Seong Sik) An approximation for the Fourier transform of Lebesgue integrable mappings. (English summary) **2005d:42007**

Dritschel, Michael A. On factorization of trigonometric polynomials. (English summary) **2005d:47034**

Èminyan, K. M. The L_1-norm of a trigonometric sum. (Russian. Russian summary) **2005i:11105**

Kim, Seong Sik *see* **Dragomir, Sever Silvestru et al., 2005d:42007**

Kobindarajah, C. K. (*with* Lubinsky, D. S.) Marcinkiewicz-Zygmund type inequalities for all arcs of the circle. (English summary) **2005g:41032**

Konyagin, Sergei V. Rearrangements of trigonometric series and trigonometric polynomials. (English summary) **2005f:42008**

Koumandos, Stamatis *see* **Alzer, Horst, 2005h:26021**

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Petukhov, A. P. Construction of symmetric orthogonal bases of wavelets and tight wavelet frames with integer dilation factor. (English summary) **2005h:42076**

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42A10 Trigonometric approximation

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42A20 Convergence and absolute convergence of Fourier and trigonometric series

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42A45 Multipliers

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Gilbert, John E. (*with* Lakey, Joseph D.) On a characterization of the local Hardy space by Gabor frames. (English summary) **2005f:42049**
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— *see also* **Mockenhaupt, Gerd, 2005i:47053**
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42A50 Conjugate functions, conjugate series, singular integrals

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Feschiev, I. Kh. (*with* Gocheva-Ilieva, Snezhana G.) On the extension of a theorem of Stein and Weiss and its application. (English summary) **2005j:42007**
Gocheva-Ilieva, Snezhana G. *see* **Feschiev, I. Kh., 2005j:42007**
Sjölin, Per Convergence of generalized conjugate partial sums of Fourier series. (English summary) **2005i:42011**
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Mironescu, Petru *see* **Bourgain, Jean et al., 2005k:26028**
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42A55 Lacunary series of trigonometric and other functions; Riesz products

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Jones, Roger L. (*with* Wang, Gang[2]) Variation inequalities for the Fejér and Poisson kernels. (English summary) **2005c:42005**
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42A61 Probabilistic methods

Duchoň, Miloslav (*with* Haluška, Ján) On random Fourier series. (English summary) **2005h:42014**
Haluška, Ján *see* **Duchoň, Miloslav, 2005h:42014**
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42A63 Uniqueness of trigonometric expansions, uniqueness of Fourier expansions, Riemann theory, localization

Vagarshakyan, A. A. On the uniqueness problem for Fourier series. (English summary) **2005g:42015**

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42A65 Completeness of sets of functions

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Pedersen, Steen On the dual spectral set conjecture. (English summary) **2005h:42016**
Prudnikov, A. P. *see* **Moiseev, E. I. et al., 2005h:42015**
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— Basis properties of some systems of exponentials, cosines, and sines. (Russian. Russian summary) **2005e:30001**
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Olevskiĭ, A. M. (*with* Ulanovskiĭ, A. M.) Almost integer translates. Do nice generators exist? (English summary) **2005a:42023**
Oltra, Sandra (*with* Sánchez Pérez, E. A.; Valero, Oscar) Spaces $L_2(\lambda)$ of a positive vector measure λ and generalized Fourier coefficients. (English summary) **2005m:46069**
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Valero, Oscar *see* **Oltra, Sandra et al., 2005m:46069**
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42A70 Trigonometric moment problems

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Morán, M. D. *see* **Marcano, J. G., 2005h:42017**

42A75 Classical almost periodic functions, mean periodic functions [see also 43A60]

Adamczak, Marek (*with* Stoiński, Stanisław) On the $(NC^{(n)})$-almost periodic functions. (English summary) **2005e:42030**
Ben Salem, Nejib (*with* Kallel, Samir) Analytic mean-periodic functions associated with the Dunkl operator in a disk. (English summary) **2005k:42019**
Bugajewski, Dariusz (*with* N'Guérékata, Gaston M.) On some classes of almost periodic functions in abstract spaces. (English summary) **2005k:42020**
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Kallel, Samir *see* **Ben Salem, Nejib, 2005k:42019**
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Stoiński, Stanisław A note on N-almost periodic functions and (NI)-almost periodic functions. (English summary) **2005k:42022**
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Yao, Hui Li *see* **Zhang, Chuan Yi, 2005a:42007**
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— (*with* Yao, Hui Li) Converse problems of Fourier expansion and their applications. (English summary) **2005a:42007**

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Gasmi, Abdessalem (*with* Sifi, Mohamed) The Bessel-Struve intertwining operator on $\mathbb{C}$ and mean-periodic functions. (English summary) **2005k:41094**
Nolasco, A. P. (*with* Castro, Luis P.) Factorization of Wiener-Hopf plus Hankel operators with APW Fourier symbols. (English summary) **2005f:47072**
Qin, Yun Chu *see* **Wang, Wu Sheng**
Radová, Lenka Theorems of Bohr-Neugebauer-type for almost-periodic differential equations. (English summary) **2005d:34094**
Sifi, Mohamed *see* **Gasmi, Abdessalem, 2005k:41094**
Trusov, I. B. Almost periodic functions. Multipliers of Fourier series of almost periodic functions. (Russian. Russian summary) **2005m:42015**
Wang, Wu Sheng (*with* Qin, Yun Chu) Inclusion relation of modules and operation of almost periodic functions. (Chinese. English and Chinese summaries)

42A82 Positive definite functions

Chung, Soon-Yeong *see* **Shin, Chang Eon, 2005k:42024**
Lu, Fangyan (*with* Sun, Hong Wei[1]) Positive definite dot product kernels in learning theory. (English summary) **2005k:42023**
Shin, Chang Eon (*with* Chung, Soon-Yeong) Analyticity and quasianalyticity of positive definite distributions. (English summary) **2005k:42024**
Sun, Hong Wei[1] *see* **Lu, Fangyan, 2005k:42023**

Items with secondary classifications in 42A82

Baxter, B. J. C. Positive definite functions on Hilbert space. (English summary) **2005g:43008**
Bruzual, Ramón (*with* Domínguez, Marisela) On measurable operator valued indefinite functions with a finite number of negative squares. (English summary) **2005d:47068**

— (*with* Domínguez, Marisela) Extension of locally defined indefinite functions on ordered groups. (English summary) **2005g:47068**
zu Castell, Wolfgang (*with* Filbir, Frank) Radial basis functions and corresponding zonal series expansions on the sphere. (English summary) **2005m:42048**
Domínguez, Marisela *see* **Bruzual, Ramón, 2005d:47068** *and* **2005g:47068**
Ehm, Werner (*with* Gneiting, Tilmann; Richards, Donald St. P.) Convolution roots of radial positive definite functions with compact support. (English summary) **2005g:42012**
Filbir, Frank *see* **zu Castell, Wolfgang, 2005m:42048**
Fuglede, Bent Spirals in Hilbert space: with an application in information theory. (English summary) **2005m:47085**
Gneiting, Tilmann *see* **Ehm, Werner et al., 2005g:42012**
Langer, Heinz (*with* Langer, Matthias; Sasvári, Zoltán) Continuations of Hermitian indefinite functions and corresponding canonical systems: an example. (English summary) **2005k:47034**
Langer, Matthias *see* **Langer, Heinz et al., 2005k:47034**
Richards, Donald St. P. *see* **Ehm, Werner et al., 2005g:42012**
Sasvári, Zoltán *see* **Langer, Heinz et al., 2005k:47034**
Zastavnyĭ, V. P. Extension of a function from the exterior of an interval to a function positive-definite on the entire axis, and an approximation characteristic of the class $W_M^{r,b}$. (Russian. English and Ukrainian summaries) **2005d:41049**

42A85 Convolution, factorization

Colonna, Flavia (*with* Easley, Glenn R.) The multichannel deconvolution problem: a discrete analysis. (English summary) **2005g:42017**
Easley, Glenn R. *see* **Colonna, Flavia, 2005g:42017**
Nguyen Minh Khoa *see* **Nguyen Xuan Thao, 2005g:42018**
Nguyen Xuan Thao (*with* Nguyen Minh Khoa) On the convolution with a weight-function for the cosine-Fourier integral transform. (English summary) **2005g:42018**

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Jones, Roger L. (*with* Wang, Gang[2]) Variation inequalities for the Fejér and Poisson kernels. (English summary) **2005c:42005**
Wang, Gang[2] *see* **Jones, Roger L., 2005c:42005**

42A99 None of the above, but in this section

Yan, Shang'an (*with* Zhai, Jiangtao; Yang, Tinghong) Fourier analysis on the measuring of non-linear distortion. (English summary) (*see* **2005i:42002**)
Yang, Tinghong *see* **Yan, Shang'an et al., (2005i:42002)**
Zhai, Jiangtao *see* **Yan, Shang'an et al., (2005i:42002)**

Items with secondary classifications in 42A99

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Karakash, Mehmet Kh. *see* **Bilalov, Bilal T., 2005i:43004**

42Bxx Fourier analysis in several variables {For automorphic theory, see mainly 11F30.}

42B05 Fourier series and coefficients

Abdollahi, Abdolaziz (*with* Taghavi, Mohsen) Dyadic representation of the Rudin-Shapiro coefficients with applications. (English summary) **2005k:42025**
Abilov, M. V. *see* **Abilov, V. A. et al., 2005e:42031**
Abilov, V. A. (*with* Abilov, M. V.; Kerimov, M. K.) Some problems of the convergence of double Fourier-Laguerre-Hermite series. (Russian. Russian summary) **2005e:42031**
Antonov, A. P. Smoothness of sums of double trigonometric series with monotone coefficients. (Russian. Russian summary) **2005k:42026**
Antonov, N. Yu. On the convergence almost everywhere of multiple trigonometric Fourier series over cubes. (Russian. Russian summary) **2005f:42019**
D'yachenko, M. I. (*with* Waterman, Daniel) Convergence of double Fourier series and W-classes. (English summary) **2005h:42018**
Falaleev, L. P. General Lebesgue constants of linear mean subsequences of Fourier sums. (Russian. Russian summary) **2005e:42032**
Fülöp, Vanda (*with* Móricz, Ferenc) Order of magnitude of multiple Fourier coefficients of functions of bounded variation. (English summary) **2005g:42019**
Gembars'ka, S. B. Estimates for the variation of functions defined by double trigonometric cosine series. (Russian. English and Ukrainian summaries) **2005h:42019**
Goginava, Ushangi On Cesàro means of double trigonometric Fourier series. (Russian. Russian summary) **2005a:42008**
González Vieli, Francisco Javier Rate of convergence in the Fourier inversion of indicator functions. (English summary) **2005k:42027**
Kerimov, M. K. *see* **Abilov, V. A. et al., 2005e:42031**
Koldobsky, Alexander (*with* Ryabogin, Dmitri; Zvavitch, Artem) Fourier analytic methods in the study of projections and sections of convex bodies. (English summary) **2005e:42033**
Kononovich, T. O. An estimate for the best approximation of summable functions of several variables with a certain symmetry of Fourier coefficients. (Ukrainian. English and Ukrainian summaries) **2005d:42008**
— An estimate for the best approximation of summable functions of two variables in terms of Fourier coefficients. (Ukrainian. English and Ukrainian summaries) **2005d:42009**
Lasuriya, R. A. Approximation of ψ-differentiable functions by multiple Fourier sums in an integral metric. (Russian. English and Russian summaries) **2005e:42034**
Liu, Shuang (*with* Qian, Tao) Pointwise convergence of Fourier series on the unit sphere of $\mathbf{R}^4$ with the quaternionic setting. (English summary) **2005d:42010**
Móricz, Ferenc *see* **Fülöp, Vanda, 2005g:42019**
Qian, Tao *see* **Liu, Shuang, 2005d:42010**
Ryabogin, Dmitri *see* **Koldobsky, Alexander et al., 2005e:42033**
Sakhnovich, Lev A. Extremal trigonometric and power polynomials of several variables. (Russian)
Simonov, B. V. Trigonometric series with $(\overrightarrow{k}, \overrightarrow{s})$-monotone coefficients in spaces with a mixed quasinorm. (Russian. Russian summary) **2005f:42020**
Singh, Harendra Finite integrals and Fourier series involving general polynomial and the multivariable H-functions. (English summary)
Taghavi, Mohsen *see* **Abdollahi, Abdolaziz, 2005k:42025**
Tsanava, Ts. On mapping properties of Bellman transform in weighted Lebesgue spaces.
— On Bellman type transforms for double trigonometric Fourier series.
Waterman, Daniel *see* **D'yachenko, M. I., 2005h:42018**
Weber, Eric The geometry of sampling on unions of lattices. (English summary) **2005k:42028**
Zhizhiashvili, L. V. On the absence of weak type $(1, 1)$ in some classical operators arising in multidimensional harmonic analysis. (Russian. Russian summary) **2005i:42012**
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Items with secondary classifications in 42B05

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Berdysheva, E. E. *see* **Arestov, Vitalii V., 2005d:26013**
Bruzual, Ramón (*with* Domínguez, Marisela) Operator-valued extension of the theorem of Helson and Szegő. (English summary) **2005i:47047**
Da Prato, Giuseppe (*with* Debussche, Arnaud) Strong solutions to the stochastic quantization equations. (English summary) **2005e:81117**
Debussche, Arnaud *see* **Da Prato, Giuseppe, 2005e:81117**
Domínguez, Marisela *see* **Bruzual, Ramón, 2005i:47047**
Fülöp, Vanda Double sine and cosine-sine series with nonnegative coefficients. (English summary) **2005f:42005**
Lin, Chin-Cheng (*with* Wang, Kun Yang) Convergence rate of Fourier-Laplace series of L^2-functions. (English summary) **2005f:42060**
Sakhnovich, Lev A. Extremal trigonometric and power polynomials in several variables. (English summary) **2005h:15088**
Taylor, Michael E. Fourier series and lattice point problems. (English summary) **2005e:42038**
Wang, Kun Yang *see* **Lin, Chin-Cheng, 2005f:42060**
Weisz, Ferenc θ-summability of Fourier series. (English summary) **2005e:42036**
Zhuk, A. S. (*with* Zhuk, V. V.) Some orthogonalities in approximation theory. (Russian. Russian summary) **2005k:42008**
Zhuk, V. V. *see* **Zhuk, A. S., 2005k:42008**

42B08 Summability

Alimov, Shavkat A. Sets of uniform convergence of Fourier expansions of piecewise smooth functions. (English summary) **2005g:42020**
Berens, Hubert (*with* zu Castell, Wolfgang) A class of summability methods of the inverse Fourier integral. (English summary) **2005i:42013**
Bhatia, S. S. *see* **Kaur, Kulwinder et al., 2005e:42035**
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D'yachenko, M. I. (*with* Kazaryan, K. S.) A sharp estimate of the measure of the set of divergence of multiple orthogonal Fourier series. (English summary) **2005b:42008**
Kaur, Kulwinder (*with* Bhatia, S. S.; Ram, Babu) Double trigonometric series with coefficients of bounded variation of higher order. (English summary) **2005e:42035**
Kazaryan, K. S. *see* **D'yachenko, M. I., 2005b:42008**
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Weisz, Ferenc θ-summability of Fourier series. (English summary) **2005e:42036**

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Gát, György (*with* Goginava, Ushangi) Uniform and L-convergence of logarithmic means of double Walsh-Fourier series. (English summary) **2005k:42079**
Goginava, Ushangi On Cesàro means of double trigonometric Fourier series. (Russian. Russian summary) **2005a:42008**
— Cesàro means of double Walsh-Fourier series. (English and Russian summaries) **2005k:42080**
— *see also* **Gát, György, 2005k:42079**
Goonatilake, Rohitha Some results on summability of random variables. (English summary) **2005k:60140**
Łaba, Izabella (*with* Wolff, Thomas H.) A local smoothing estimate in higher dimensions. **2005b:35015**
Lal, Shyam (*with* Srivastava, Anjalee) Study of conjugate series of a Fourier series by K^λ-summability method. (English summary)
Lifanov, Ivan K. *see* **Vaĭnikko, G. M., 2005a:40005**
Lomov, I. S. Integral representations of a partial sum of a biorthogonal series for higher-order differential operators. (Russian. Russian summary) **2005m:34201**
Lukashenko, T. P. On the Riemann-Stieltjes integral and Parseval's equality. (Russian. Russian summary) **2005h:42011**
Srivastava, Anjalee *see* **Lal, Shyam**
Vaĭnikko, G. M. (*with* Lifanov, Ivan K.) On some approaches to the summation of multidimensional divergent integrals. (Russian. Russian summary) **2005a:40005**
Wolff, Thomas H. *see* **Łaba, Izabella, 2005b:35015**

42B10 Fourier and Fourier-Stieltjes transforms and other transforms of Fourier type

Bak, Jong-Guk (*with* Lee, Sang Hyuk[1]) Restriction of the Fourier transform to a quadratic surface in $\mathbb{R}^n$. (English summary) **2005g:42021**
— (*with* Lee, Sang Hyuk[1]) Estimates for an oscillatory integral operator related to restriction to space curves. (English summary) **2005d:42011**
Barceló, J. A. (*with* Bennett, Jonathan M.; Carbery, Anthony) A multilinear extension inequality in $\mathbb{R}^n$. (English summary) **2005b:42009**

Bennett, Jonathan M. A trilinear restriction problem for the paraboloid in $\mathbb{R}^3$. (English summary) **2005g:42022**
— *see also* **Barceló, J. A. et al., 2005b:42009**
Carbery, Anthony *see* **Barceló, J. A. et al., 2005b:42009**
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43–XX Abstract harmonic analysis {For other analysis on topological and Lie groups, see 22Exx.}

43–01 Instructional exposition (textbooks, tutorial papers, etc.)

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43–06 Proceedings, conferences, collections, etc.

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43A05 Measures on groups and semigroups, etc.

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43A07 Means on groups, semigroups, etc.; amenable groups

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43A10 Measure algebras on groups, semigroups, etc.

Amini, Massoud (*with* Medghalchi, Alireza) Fourier algebras on topological foundation $*$-semigroups. (English summary) **2005i:43002**

Ghaffari, Ali. The modulus of operators on group algebras. (English summary) **2005c:43001**
Losert, Viktor Weakly compact multipliers on group algebras. (English summary) **2005h:43002**
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Neufang, Matthias Solution to a conjecture by Hofmeier-Wittstock. (English summary) **2005i:43003**
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— (*with* Medghalchi, Alireza) Characterization of operators on the dual of hypergroups which commute with translations and convolutions. (English summary) **2005i:43017**
Graham, Colin C. Local existence of $\mathscr{K}$-sets, projective tensor products, and Arens regularity for $A(E_1 + \cdots + E_n)$. (English summary) **2005e:43005**
Lashkarizadeh Bami, M. A generalization of Bochner-Weil's theorem and Stone's theorem on foundation semigroups. (English summary) **2005i:43013**
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43A15 L^p-spaces and other function spaces on groups, semigroups, etc.

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Forrest, B. E. Completely bounded multipliers and ideals in $A(G)$ vanishing on closed subgroups. (English summary) **2005h:43003**
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Pandey, Sheel Sindhu p-frames for subspaces of Wiener amalgams on a locally compact abelian group. (English summary) **2005a:43004**
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Janakiraman, Prabhu Best weak-type (p, p) constants, $1 \le p \le 2$, for orthogonal harmonic functions and martingales. (English summary) **2005m:60088**
Jorgenson, Jay (*with* Lang, Serge) A Gaussian space of test functions. (English summary) **2005m:41041**
Kamra, Mamta An analogue of Plancherel theorem and translation invariant operators on $L^2(G, H)$. (English summary) **2005m:43002**
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Oberlin, Daniel M. Two estimates for curves in the plane. (English summary) **2005f:42037**
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Soltani, Fethi L^p-Fourier multipliers for the Dunkl operator on the real line. (English summary) **2005a:43008**
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Szeptycki, Paweł *see* **Martin, Mircea**, **2005h:42050**
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43A17 Analysis on ordered groups, H^p-theory

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van der Mee, Cornelis V. M. (*with* Rodman, Leiba; Spitkovsky, Ilya M.; Woerdeman, Hugo J.) Factorization of block triangular matrix functions in Wiener algebras on ordered abelian groups. (English summary) **2005f:47051**
Rodman, Leiba *see* **van der Mee, Cornelis V. M. et al.**, **2005f:47051**
Spitkovsky, Ilya M. *see* **van der Mee, Cornelis V. M. et al.**, **2005f:47051**
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43A20 L^1-algebras on groups, semigroups, etc.

Bhatt, Subhash J. (*with* Dedania, H. V.) Beurling algebras and uniform norms. (English summary) **2005a:43005**
Bhatta, Chet Raj *see* **Kumar, Ajay[1]**, **2005h:43006**
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De Michele, L. (*with* Roux, Delfina) The Gibbs phenomenon for n-dimensional kernels. (English summary) **2005g:43004**
Dziubański, Jacek (*with* Ludwig, Jean; Molitor-Braun, Carine) Functional calculus in weighted group algebras. (English summary) **2005f:43003**
Ghahramani, F. (*with* Zabandan, G.) 2-weak amenability of a Beurling algebra and amenability of its second dual. (English summary)
Graham, Colin C. A B.A.I. proof of the non-Arens regularity of $L^1(\mathscr{G})$. (English summary) **2005h:43004**
Grigoryan, Suren A. (*with* Tonev, Toma V.) Shift-invariant algebras on groups. (English summary) **2005h:43005**
Kumar, Ajay[1] (*with* Bhatta, Chet Raj) Uniform version of the Wiener-Tauberian theorem. (English summary) **2005h:43006**
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Neufang, Matthias A unified approach to the topological centre problem for certain Banach algebras arising in abstract harmonic analysis. (English summary) **2005g:22004**
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43A22 Homomorphisms and multipliers of function spaces on groups, semigroups, etc.

Berkson, Earl (*with* Gillespie, T. A.) On restrictions of multipliers in weighted settings. (English summary) **2005i:43006**
Bhatnagar, Savita Spaces of multipliers and their preduals for the order multiplication on [0, 1]. II. (English summary) **2005e:43004**
Chaurasia, P. K. *see* **Tewari, U. B.**, **2005j:43004**
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43A25 Fourier and Fourier-Stieltjes transforms on locally compact abelian groups

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Oberlin, Daniel M. Two estimates for curves in the plane. (English summary) **2005f:42037**

43A30 Fourier and Fourier-Stieltjes transforms on nonabelian groups and on semigroups, etc.

Amini, Massoud (*with* Medghalchi, Alireza) Fourier algebras on tensor hypergroups. (English summary) **2005i:43008**
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Ben Salah, Nour *see* **Baklouti, Ali et al.**, **2005h:43007**
Medghalchi, Alireza Fourier algebras on semigroups. (English summary) **2005i:43009**
— *see also* **Amini, Massoud**, **2005i:43008**
Smaoui, K. *see* **Baklouti, Ali et al.**, **2005h:43007**
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43A32 Other transforms and operators of Fourier type

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43A35 Positive definite functions on groups, semigroups, etc.

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Bisgaard, Torben Maack An example of a positive semidefinite double sequence which is not a moment sequence. (English summary) **2005d:43004**
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Borisov, Alexandr Convolution structures and arithmetic cohomology. (English summary) **2005f:11235**
Bruzual, Ramón (*with* Domínguez, Marisela) Extension of indefinite functions on intervals of ordered groups. **2005k:47030**
Buescu, Jorge (*with* Paixao, A. C.; Garcia, Francisco M.; Lourtie, I.) Positive-definiteness, integral equations and Fourier transforms. (English summary) **2005h:47089**
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43A40 Character groups and dual objects

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Borisov, Alexandr Convolution structures and arithmetic cohomology. (English summary) **2005f:11235**
Bruguera, M. Montserrat (*with* Martín-Peinador, Elena; Tarieladze, V. I.) Eberlein-Šmulyan theorem for abelian topological groups. (English summary) **2005i:22003**
Galindo, Jorge (*with* Hernández, Salvador) Interpolation sets and the Bohr topology of locally compact groups. (English summary) **2005g:22001**
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43A45 Spectral synthesis on groups, semigroups, etc.

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Laczkovich, Miklós (*with* Székelyhidi, G.) Harmonic analysis on discrete abelian groups. (English summary) **2005i:43015**
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Székelyhidi, László The failure of spectral synthesis on some types of discrete abelian groups. (English summary) **2005b:43008**

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Shulman, Viktor S. (*with* Turowska, Lyudmila B.) Operator synthesis. I. Synthetic sets, bilattices and tensor algebras. (English summary) **2005f:47152**
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Tao, Terence C. Fuglede's conjecture is false in 5 and higher dimensions. (English summary) **2005i:42037**
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43A46 Special sets (thin sets, Kronecker sets, Helson sets, Ditkin sets, Sidon sets, etc.)

Items with secondary classifications in 43A46

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Grow, David (*with* Hare, Kathryn E.) The independence of characters on non-abelian groups. (English summary) **2005e:43007**
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43A55 Summability methods on groups, semigroups, etc. [see also 40J05]

Tanović-Miller, N. Integrability and L^1 convergence classes for unbounded Vilenkin systems. (English summary) **2005a:43007**

43A60 Almost periodic functions on groups and semigroups and their generalizations (recurrent functions, distal functions, etc.); almost automorphic functions

Items with secondary classifications in 43A60

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Favorov, S. Yu. (*with* Udodova, O. I.) Spaces of holomorphic almost periodic functions on a strip. (English summary) **2005b:42007**
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Hernández, Salvador Group homomorphisms induced by isometries of spaces of almost periodic functions. (English summary) **2005f:22008**
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43A62 Hypergroups

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Betancor, Jorge J. (*with* Betancor Ortiz, Juan D.; Méndez Pérez, José Manuel) Hypercyclic and chaotic convolution operators on Chébli-Trimèche hypergroups. (English summary) **2005g:43009**
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Filbir, Frank (*with* Lasser, Rupert; Szwarc, Ryszard) Reiter's condition P_1 and approximate identities for polynomial hypergroups. (English summary) **2005i:43016**
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43A90 Spherical functions [see also 22E45, 22E46, 33C65]

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43A99 Miscellaneous topics

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44–XX Integral transforms, operational calculus {For fractional derivatives and integrals, see 26A33. For Fourier transforms, see 42A38, 42B10. For integral transforms in distribution spaces, see 46F12. For numerical methods, see 65R10.}

44–01 Instructional exposition (textbooks, tutorial papers, etc.)

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44A10 Laplace transform

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45–XX Integral equations

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45E05 Integral equations with kernels of Cauchy type [see also 35J15]

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45E10 Integral equations of the convolution type (Abel, Picard, Toeplitz and Wiener-Hopf type) [see also 47B35]

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45E99 None of the above, but in this section

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45Fxx Systems of linear integral equations

45F05 Systems of nonsingular linear integral equations

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45F10 Dual, triple, etc., integral and series equations

Chandel, Jyotsna *see* **Dwivedi, A. P., 2005k:45009**
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45Gxx Nonlinear integral equations [see also 47H30, 47Jxx]

45G05 Singular nonlinear integral equations

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— A fixed point theorem in Banach algebras involving three operators with applications. (English summary) **2005b:47124**
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45G15 Systems of nonlinear integral equations

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Okrasiński, Wojciech *see* **Mydlarczyk, Wojciech et al., 2005g:45003**
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45H05 Miscellaneous special kernels [see also 44A15]

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45J05 Integro-ordinary differential equations [see also 34K05, 34K30, 47G20]

Al-Eid, G. *see* **Islam, Muhammad Nurul[1] et al., 2005e:45008**
Anthoni, S. Marshal *see* **Balachandran, Krishnan et al., 2005b:45006**
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45Mxx Qualitative behavior

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45M99 None of the above, but in this section

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45Q05 Inverse problems

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Ciulli, S. (*with* Pidcock, M. K.; Sebu, C.) An integral equation method for the inverse conductivity problem. (English summary) **2005a:45010**
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45R05 Random integral equations [see also 60H20]

Dhage, Bupurao C. (*with* Ingle, R. N.; Ntouyas, Sotiris K.) Existence of extremal random solutions of nonlinear random integral equations. (English summary)
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46–XX Functional analysis {For manifolds modeled on topological linear spaces, see 57Nxx, 58Bxx.}

46–01 Instructional exposition (textbooks, tutorial papers, etc.)

Carothers, N. L. ★ A short course on Banach space theory. **2005k:46001**
Costara, Constantin (*with* Popa, Dumitru) ★ Exercises in functional analysis. **2005b:46001**
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Functional analysis *see* **Costara, Constantin**, **2005b:46001**

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Godement, Roger ★ Analyse mathématique. IV. (French) [Mathematical analysis. IV] **2005k:11002**
Mukherjea, Kalyan ★ Differential calculus in normed linear spaces. **2005b:46088**
Shakarchi, Rami *see* **Stein, Elias M.**, **2005k:28024**
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46–02 Research exposition (monographs, survey articles)

Bierstedt, Klaus D. (*with* Bonet, José) Some aspects of the modern theory of Fréchet spaces. (English and Spanish summaries) **2005e:46001**
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46–03 Historical (must also be assigned at least one classification number from Section 01)

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Skórnik, Krystyna *see* **Antosik, Piotr**, (**2005b:01052**)

46–06 Proceedings, conferences, collections, etc.

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(Ciesielski, Zbigniew) *see* **Orlicz centenary volume**, **2005f:46003**
(Doran, Robert S.) *see* **Operator algebras, quantization, and noncommutative geometry**, **2005g:46001**
(Grząślewicz, R.) *see* **Function spaces**, **2005b:46004**
(Hudzik, Henryk) *see* **Function spaces**, **2005b:46004**
(Kadets, Vladimir) *see* **Functional analysis and its applications**, **2005f:46002**
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Maslyuchenko, V. K. (*with* Plichko, Anatoliĭ) Some open problems on functional analysis and function theory.
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(Orlicz, Władysław) *see* **Orlicz centenary volume**, **2005f:46003**
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Lviv ★ Functional analysis and its applications. **2005f:46002**
Operator algebras, quantization, and noncommutative geometry ★ Operator algebras, quantization, and noncommutative geometry. **2005g:46001**
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(Ebenfelt, Peter) *see* **Quadrature domains and their applications**, **2005j:00019**
(Gaşpar, Dumitru) *see* **Recent advances in operator theory, operator algebras, and their applications**, **2005g:00017**
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Kochi ★ Linear algebra, numerical functional analysis and wavelet analysis. **2005d:47001**
Kyoto ★ Non-commutativity, infinite-dimensionality and probability at the crossroads. **2005a:81119**
Linear algebra, numerical functional analysis and wavelet analysis ★ Linear algebra, numerical functional analysis and wavelet analysis. **2005d:47001**
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Recent advances in operator theory, operator algebras, and their applications ★ Recent advances in operator theory, operator algebras, and their applications. **2005g:00017**
Santa Barbara, CA ★ Quadrature domains and their applications. **2005j:00019**

Seminar:
Mathematical Analysis ★ Seminar of Mathematical Analysis. **2005i:00017**
Seville ★ Seminar of Mathematical Analysis. **2005i:00017**
Timişoara ★ Recent advances in operator theory, operator algebras, and their applications. **2005g:00017**

46Axx Topological linear spaces and related structures {For function spaces, see 46Exx.}

46A03 General theory of locally convex spaces

Abdeljawad, Thabet (*with* Yurdakul, Murat) The property of smallness up to a complemented Banach subspace. (English summary) **2005a:46001**
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Caicedo, Xavier (*with* Enciso, Germán) The Hahn-Banach theory as a principle of choice. (Spanish. English and Spanish summaries) **2005e:46002**
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Kąkol, Jerzy (*with* Saxon, Stephen A.; Todd, Aaron R.) Docile locally convex spaces. (English summary) **2005a:46002**
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Orlov, Ĭ. V. A canonical isomorphism of linear and bilinear operators in locally convex spaces. (Ukrainian. English summary) **2005a:46003**
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Todd, Aaron R. *see* **Kąkol, Jerzy et al.**, **2005a:46002**
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Banakh, Taras O. (*with* Bogachev, Vladimir I.; Kolesnikov, A. V.) Topological spaces with the strong Skhorokhod property. II. (English summary) [Topological spaces with the strong Skorokhod property. II] **2005h:54030**
Bogachev, Vladimir I. *see* **Banakh, Taras O. et al.**, **2005h:54030**
Bonet, José (*with* Frerick, Leonhard; Peris, Alfredo; Wengenroth, Jochen) Transitive and hypercyclic operators on locally convex spaces. (English summary) **2005k:47021**
Boyd, Christopher (*with* Dineen, Seán; Venkova, Milena) Q-reflexive locally convex spaces. (English summary) **2005b:46095**
Cascales, B. (*with* Raja, Matias) Bounded tightness for weak topologies. (English summary) **2005f:46040**
Crăciunaş, Petru *see* **Crăciunaş, Silviu**, **2005k:46106**
Crăciunaş, Silviu (*with* Crăciunaş, Petru) Quasisymmetric and quasimöbius maps on locally convex spaces. (English summary) **2005k:46106**
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Dvalishvili, B. Relative compactness, cotopology and some other notions from the bitopological point of view. (English summary) **2005b:54056**
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Hernández, Salvador (*with* Trigos-Arrieta, F. Javier) Group duality with the topology of precompact convergence. (English summary) **2005k:22004**
Hušek, Miroslav $C_p(X)$ in coreflective classes of locally convex spaces. (English summary) **2005k:54024**
Kolesnikov, A. V. *see* **Banakh, Taras O. et al.**, **2005h:54030**
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Shkarin, Stanislav A. (*with* Leonov, A. K.) On weak and strong Peano theorems. (English summary) **2005m:34132**
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46A04 Locally convex Fréchet spaces and (DF)-spaces

Boyd, Christopher Polynomially significant properties and equivalence of topologies on fully nuclear spaces. (English summary) **2005i:46001**
Frerick, Leonhard (*with* Peris, Alfredo) Small ball properties for Fréchet spaces. (English and Spanish summaries) **2005e:46003**
Peris, Alfredo *see* **Frerick, Leonhard**, 2005e:46003
Valdivia, Manuel Bases and quasi-reflexivity in Fréchet spaces English summary **2005m:46001**

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Bonet, José (*with* Friz, Miguel) Weakly compact wedge operators on Köthe echelon spaces. (English summary) **2005a:47041**
— *see also* **Bierstedt, Klaus D.**, **2005e:46001**
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Boyd, Christopher Holomorphic functions and the BB-property on product spaces. (English summary) **2005c:46055**
Bui Dac Tac (*with* Le Mau Hai; Nguyen Quang Dieu) The linear invariants $(\underline{DN})$ and $(\overline{\Omega})$ for spaces of germs of holomorphic functions on compact subsets of $\mathbf{C}^n$. (English summary) **2005b:46054**
Dinh Huy Hoang The properties (Ω, H_u) and the tensor product. **2005i:46047**
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Okada, Susumu (*with* Ricker, Werner J.) Fréchet-space-valued measures and the AL-property. (English and Spanish summaries) **2005c:46052**
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46A08 Barrelled spaces, bornological spaces

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— (*with* Sánchez Ruiz, Luis M.) Barrelledness in $l_\infty(\Omega, X)$ subspaces. (English summary) **2005m:46002**
Kąkol, Jerzy (*with* López Pellicer, M.; Moll, S.) Banach disks and barrelledness properties of metrizable $c_0(\Omega, X)$. (English summary) **2005e:46004**
— (*with* Saxon, Stephen A.; Todd, Aaron R.) The analysis of Warner boundedness. (English summary) **2005f:46005**
López Pellicer, M. (*with* Moll, S.) Unitary sequences and classes of barrelledness. (English and Spanish summaries) **2005m:46003**
— *see also* **Kąkol, Jerzy et al.**, **2005e:46004**
Moll, S. *see* **Kąkol, Jerzy et al.**, **2005e:46004** *and* **López Pellicer, M.**, **2005m:46003**
Qiu, Jing Hui Infra-Mackey spaces, weak barrelledness and barrelledness. (English summary) **2005b:46006**
Sánchez Ruiz, Luis M. *see* **Ferrando, J. C.**, **2005b:46005** *and* **2005m:46002**
Saxon, Stephen A. *see* **Kąkol, Jerzy et al.**, **2005f:46005**
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Tsirulnikov, Bella Barrelledness and dual strong sequences in locally convex spaces. (English summary) **2005k:46005**

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Gök, Ömer A note on integration with respect to vector measures. (English summary)
Kąkol, Jerzy (*with* Saxon, Stephen A.; Todd, Aaron R.) Docile locally convex spaces. (English summary) **2005a:46002**
— (*with* Saxon, Stephen A.; Todd, Aaron R.) Weak barrelledness for $C(X)$ spaces. (English summary) **2005e:46039**
Leonov, A. K. *see* **Shkarin, Stanislav A.**, **2005m:34132**
Qiu, Jing Hui Resonance theorems for families of quasi-homogeneous operators. (Chinese. English and Chinese summaries) **2005c:46005**
Render, Hermann *see* **Todd, Aaron R.**, **2005e:54019**
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Shkarin, Stanislav A. (*with* Leonov, A. K.) On weak and strong Peano theorems. (English summary) **2005m:34132**
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— *see also* **Kąkol, Jerzy et al.**, **2005a:46002** *and* **2005e:46039**
Wu, Cong Xin *see* **Yan, Cong-hua**, **2005m:46116**
Yan, Cong-hua (*with* Wu, Cong Xin) Fuzzy L-bornological spaces. (English summary) **2005m:46116**

46A11 Spaces determined by compactness or summability properties (nuclear spaces, Schwartz spaces, Montel spaces, etc.)

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Bruguera, M. Montserrat (*with* Martín-Peinador, Elena; Tarieladze, V. I.) Eberlein-Šmulyan theorem for abelian topological groups. (English summary) **2005i:22003**

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Taskinen, Jari Atomic decomposition of a weighted inductive limit. (English and Spanish summaries) **2005b:46007**

Tesko, V. A. A construction of generalized translation operators. (English summary) **2005i:47030**

46A13 Spaces defined by inductive or projective limits (LB, LF, etc.) [see also 46M40]

Domański, Paweł Classical PLS-spaces: spaces of distributions, real analytic functions and their relatives. (English summary) **2005g:46002**

Gomez-Wulschner, Claudia (*with* Kučera, Jan) Sequentially complete inductive limits and regularity. (English summary) **2005d:46002**

Kučera, Jan *see* **Gomez-Wulschner, Claudia, 2005d:46002**

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Taskinen, Jari Atomic decomposition of a weighted inductive limit. (English and Spanish summaries) **2005b:46007**

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Bonet, José Weighted spaces of holomorphic functions and operators between them. (English summary) **2005c:46025**

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Domański, Paweł (*with* Vogt, Dietmar) Infinite systems of linear equations for real analytic functions. (English summary) **2005g:46053**

Frerick, Leonhard (*with* Wengenroth, Jochen) Surjective convolution operators on spaces of distributions. (English and Spanish summaries) **2005c:46049**

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Joița, Maria Tensor products of Hilbert modules over locally C^*-algebras. (English summary) **2005e:46113**

Le Mau Hai The property (LB_∞) and Fréchet-valued holomorphic functions on compact sets. (English summary) **2005g:46086**

Meise, Reinhold G. *see* **Bonet, José et al., 2005a:46051**; **2005d:46050** *and* **2005e:46038**

Melikhov, Sergeĭ Nikolaevich *see* **Bonet, José et al., 2005a:46051** *and* **2005e:46038**

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Schmets, Jean (*with* Valdivia, Manuel) On certain extension theorems in the mixed Borel setting. (English summary) **2005g:46078**

Shkarin, Stanislav A. Sequentially continuous non-linear fundamental systems of solutions of affine equations in locally convex spaces. (English summary) **2005a:34087**

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Vogt, Dietmar Fréchet valued real analytic functions. (English summary) **2005h:46059**

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Wengenroth, Jochen *see* **Frerick, Leonhard, 2005c:46049** *and* **Bonet, José et al., 2005k:47021**

46A16 Not locally convex spaces (metrizable topological linear spaces, locally bounded spaces, quasi-Banach spaces, etc.)

Cabello Sánchez, Félix Contribution to the classification of minimal extensions. (English summary) **2005e:46005**

Glöckner, Helge Tensor products in the category of topological vector spaces are not associative. (English summary) **2005g:46004**

Kalton, Nigel J. Quasi-Banach spaces. **2005a:46004**

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Bárcenas, Diómedes Continuity of operators on topological vector spaces. (English summary) **2005b:46008**

Bermúdez, Teresa (*with* Bonilla, Antonio; Peris, Alfredo) On hypercyclicity and supercyclicity criteria. (English summary) **2005d:47014**

Bonilla, Antonio *see* **Bermúdez, Teresa et al., 2005d:47014**

Cabello Sánchez, Félix (*with* Castillo, Jesús M. F.) Uniform boundedness and twisted sums of Banach spaces. (English summary) **2005f:46032**

— (*with* Castillo, Jesús M. F.) The long homology sequence for quasi-Banach spaces, with applications. (English summary) **2005k:46191**

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Cobzaș, Ștefan Separation of convex sets and best approximation in spaces with asymmetric norm. (English summary) **2005h:46013**

Cui, Yun An (*with* Hudzik, Henryk; Szymaszkiewicz, L.; Wang, Ting Fu) Criteria for monotonicity properties of Musielak-Orlicz spaces equipped with the Amemiya norm. (English summary) **2005k:46062**

Hudzik, Henryk *see* **Cui, Yun An et al., 2005k:46062**

Kalton, Nigel J. Rademacher series from Orlicz to the present day. (English summary) **2005g:46026**

— *see also* **Albiac, F. et al., 2005k:46008**

Khosravi, Amir Derivations on ρ-Banach algebras. (English summary) **2005b:46108**

Kim, In-Sook Fixed points of condensing multivalued maps in topological vector spaces. **2005e:47125**

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Tabor, Jacek Stability of the Cauchy functional equation in quasi-Banach spaces. (English summary) **2005h:39047**

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Wang, Ting Fu *see* **Cui, Yun An et al., 2005k:46062**

Weston, Anthony *see* **Prassidis, Efstratios, 2005b:46035**

46A17 Bornologies and related structures; Mackey convergence, etc.

Aqzzouz, Belmesnaoui Caractérisations des b-espaces libres. [Characterizations of free b-spaces] **2005c:46003**

— (*with* El Kadiri, Mohamed) Some exact functors on the category of b-spaces. (English and Italian summaries) **2005f:46006**

El Kadiri, Mohamed *see* **Aqzzouz, Belmesnaoui, 2005f:46006**

Meyer, Ralf Bornological versus topological analysis in metrizable spaces. (English summary) **2005k:46007**

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Buskes, Gerard (*with* van Rooij, Arnoud) The bornological tensor product of two Riesz spaces. (English summary) **2005g:46006a**

— (*with* van Rooij, Arnoud) The bornological tensor product of two Riesz spaces: proof and background material. (English summary) **2005g:46006b**

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46A19 Other "topological" linear spaces (convergence spaces, ranked spaces, spaces with a metric taking values in an ordered structure more general than R, etc.)

Gutman, A. E. (*with* Ryabko, D. B.) Functional representation of Kantorovich spaces of Boolean-valued models. (Russian. Russian summary) **2005c:46004**

Lowen, Robert (*with* Verwulgen, S.) Approach vector spaces. (English summary) **2005m:46004**

Ryabko, D. B. *see* **Gutman, A. E., 2005c:46004**

Sioen, M. (*with* Verwulgen, S.) Quantified functional analysis: recapturing the dual unit ball. (English summary) **2005e:46006**

Verwulgen, S. *see* **Sioen, M., 2005e:46006** *and* **Lowen, Robert, 2005m:46004**

Vestfrid, Igor A. On bijective isometries. (English summary) **2005h:46003**

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— (*with* Kudaĭbergenov, K. K.) Banach's theorem on an inverse operator in Banach-Kantorovich spaces. (Russian. Russian summary) **2005m:47002**

Koptev, A. V. Some classes of Banach bundles with continuous weakly continuous sections. (Russian. Russian summary) **2005d:46045**

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Marakulin, V. M. Equilibrium analysis of Kantorovich spaces. (Russian. English and Russian summaries) **2005h:91150**

46A20 Duality theory

Cohen, Guy (*with* Gaubert, Stéphane; Quadrat, Jean-Pierre) Duality and separation theorems in idempotent semimodules. (English summary) **2005e:46007**

Gaubert, Stéphane *see* **Cohen, Guy et al., 2005e:46007**

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Quadrat, Jean-Pierre *see* **Cohen, Guy et al., 2005e:46007**
Wang, Junming *see* **Li, Rong Lu, 2005a:46005**

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Boyd, Christopher (*with* Dineen, Seán; Venkova, Milena) Q-reflexive locally convex spaces. (English summary) **2005b:46095**
Cobzaş, Ştefan Separation of convex sets and best approximation in spaces with asymmetric norm. (English summary) **2005h:46013**
Dineen, Seán *see* **Boyd, Christopher et al., 2005b:46095**
Mujica, Jorge The Kakutani's precompactness lemma. (English summary) **2005m:46007**
Orlov, Ĭ. V. Iterated limit theorem for inductive-projective topologies and application. (English summary) **2005g:46003**
Oubbi, L. B-convexity and A-convexity of polar algebra topologies. (English summary) **2005k:46004**
Penot, Jean-Paul (*with* Zălinescu, Constantin) Continuity of the Legendre-Fenchel transform for some variational convergences. (English summary) **2005k:49054**
Sioen, M. (*with* Verwulgen, S.) Quantified functional analysis: recapturing the dual unit ball. (English summary) **2005e:46006**
Venkova, Milena *see* **Boyd, Christopher et al., 2005b:46095**
Verwulgen, S. *see* **Sioen, M., 2005e:46006**
Zălinescu, Constantin *see* **Penot, Jean-Paul, 2005k:49054**

46A22 Theorems of Hahn-Banach type; extension and lifting of functionals and operators [see also 46M10]

Ambrozie, Călin (*with* Olteanu, Octav) A sandwich theorem, the moment problem, finite-simplicial sets, and some inequalities. (English summary) **2005h:46004**
Banţă, Valeriu The weak and strong extensions of a linear operator. (English summary) **2005h:46005**
Costara, Constantin (*with* Popa, Dumitru) Effective determination of all the Hahn-Banach extensions of some linear and continuous functionals. **2005e:46008**
Duma, Adrian (*with* Vladimirescu, Cristian) Treatment of the fields having the Hahn-Banach property. (English summary) **2005a:46006**
Lee, Heung Wing Joseph *see* **Peng, Jianwen et al., 2005h:46006**
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Peng, Jianwen (*with* Lee, Heung Wing Joseph; Rong, Weidong; Yang, Xin Min) A generalization of Hahn-Banach extension theorem. (English summary) **2005h:46006**
Popa, Dumitru *see* **Costara, Constantin, 2005e:46008**
Qiu, Jing Hui Resonance theorems for families of quasi-homogeneous operators taking values in topological vector spaces. (Chinese. English and Chinese summaries)
Rong, Weidong *see* **Peng, Jianwen et al., 2005h:46006**
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Xiong, Hong Yun (*with* Zhang, Cui Jie) A version of Hahn-Banach extension theorem. (Chinese. English and Chinese summaries)
Yan, Zhi Bin A generalization of the Mazur theorem and its geometric proof. (Chinese. English and Chinese summaries) **2005g:46005**
Yang, Xin Min *see* **Peng, Jianwen et al., 2005h:46006**
Zhang, Cui Jie *see* **Xiong, Hong Yun**

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Bai, Yong Cheng *see* **Wang, Guo Jun[1], 2005j:54020**
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Caicedo, Xavier (*with* Enciso, Germán) The Hahn-Banach theory as a principle of choice. (Spanish. English and Spanish summaries) **2005e:46002**
Castillo, Jesús M. F. (*with* Moreno Salguero, Yolanda) On the Lindenstrauss-Rosenthal theorem. (English summary) **2005d:46044**
Dăneţ, Nicolae (*with* Dăneţ, Rodica-Mihaela) Extension theorems and the Riesz decomposition property. **2005d:47070**
Dăneţ, Rodica-Mihaela *see* **Dăneţ, Nicolae, 2005d:47070**
Domański, Paweł Ideals of extendable and liftable operators. (English and Spanish summaries) **2005f:47148**
Enciso, Germán *see* **Caicedo, Xavier, 2005e:46002**
Kaneda, Masayoshi (*with* Paulsen, Vern I.) Quasi-multipliers of operator spaces. (English summary) **2005m:46098**
Kuriakose, A. Sunny *see* **Punnoose, Binimol, 2005k:46196**
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Mulvey, C. J. On the geometry of choice. (*see* **2005c:54006**)
Narici, Lawrence *see* **Beckenstein, Edward, 2005b:46158**
Nishihara, Masaru The extension of entire functions of nuclear type on locally convex spaces. **2005b:46092**
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Punnoose, Binimol (*with* Kuriakose, A. Sunny) Fuzzy Hahn-Banach theorem—a new approach. II. (English summary) **2005k:46196**
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46A25 Reflexivity and semi-reflexivity [see also 46B10]

Items with secondary classifications in 46A25

Frerick, Leonhard (*with* Peris, Alfredo) Small ball properties for Fréchet spaces. (English and Spanish summaries) **2005e:46003**
Peris, Alfredo *see* **Frerick, Leonhard, 2005e:46003**
Valdivia, Manuel Bases and quasi-reflexivity in Fréchet spaces. (English summary) **2005m:46001**

46A30 Open mapping and closed graph theorems; completeness (including B-, B_r-completeness)

Bárcenas, Diómedes Continuity of operators on topological vector spaces. (English summary) **2005b:46008**
Qiu, Jing Hui Resonance theorems for families of quasi-homogeneous operators. (Chinese. English and Chinese summaries) **2005c:46005**

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Cao, Jiling (*with* Piotrowski, Zbigniew) Two variations of the Choquet game. (English summary) **2005k:54022**
Gomez-Wulschner, Claudia (*with* Kučera, Jan) Sequentially complete inductive limits and regularity. (English summary) **2005d:46002**
Kąkol, Jerzy (*with* Saxon, Stephen A.; Todd, Aaron R.) The analysis of Warner boundedness. (English summary) **2005f:46005**
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Orlov, Ĭ. V. Banach homomorphism theorem in inductive scales of spaces and its applications. (English summary) **2005k:46006**
Piotrowski, Zbigniew *see* **Cao, Jiling, 2005k:54022**
Saxon, Stephen A. *see* **Kąkol, Jerzy et al., 2005f:46005**
Todd, Aaron R. *see* **Kąkol, Jerzy et al., 2005f:46005**

46A32 Spaces of linear operators; topological tensor products; approximation properties [see also 46B28, 46M05, 47L05, 47L20]

Lewandowska, Zofia Banach-Steinhaus theorems for bounded linear operators with values in a generalized 2-normed space. (English summary) **2005b:46009**

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Aywa, Shem (*with* Fourie, Jan H.) Spaces of compact operators and their dual spaces. (English summary) **2005e:46031**
Blanco, Ariel (*with* Boumazgour, M.; Ransford, Thomas) On the norm of elementary operators. (English summary) **2005k:47072**
Bonet, José (*with* Friz, Miguel) Weakly compact wedge operators on Köthe echelon spaces. (English summary) **2005a:47041**
Boumazgour, M. *see* **Blanco, Ariel et al., 2005k:47072**
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Fourie, Jan H. *see* **Aywa, Shem, 2005e:46031**
Fragoulopoulou, Maria Measure-theoretic characterizations of positive linear forms. (English summary) **2005d:46110**
Friz, Miguel *see* **Bonet, José, 2005a:47041**
Meyer, Ralf Bornological versus topological analysis in metrizable spaces. (English summary) **2005k:46007**
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Sioen, M. (*with* Verwulgen, S.) Locally convex approach spaces. (English summary) **2005h:46002**
Tiţa, Nicolae A general view on approximation ideals. (English summary) **2005g:47034**
Todorov, Ivan G. Normalisers of CSL algebras. (English summary) **2005m:47143**
Verwulgen, S. *see* **Sioen, M., 2005h:46002**
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Yadav, Sarjoo Prasad (*with* Yadav, Rakesh Kumar) A note on wavelet approximation. (English summary) **2005k:42111**

46A35 Summability and bases [see also 46B15]

Albiac, F. (*with* Kalton, Nigel J.; Leránoz, C.) Uniqueness of the unconditional basis of $l_1(l_p)$ and $l_p(l_1)$, $0 < p < 1$. (English summary) **2005k:46008**
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Boos, J. (*with* Zeltser, M.) Sequences of 0's and 1's. Classes of concrete 'big' Hahn spaces. (English summary) **2005b:46014**
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Kondakov, Vladimir Petrovich (*with* Efimov, A. I.) On two classes of Köthe-Fréchet spaces in which every complemented subspace has a basis. (Russian. Russian summary) **2005i:46006**
Konyagin, Sergei V. (*with* Temlyakov, V. N.) Convergence of greedy approximation. I. General systems. (English summary) **2005h:41068**
Li, Rong Lu (*with* Wang, Junming) Invariants in abstract mapping pairs. (English summary) **2005a:46005**
Śliwa, Wiesław Every non-normable non-Archimedean Köthe space has a quotient without the bounded approximation property. (English summary) **2005j:46044**
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Temlyakov, V. N. *see* **Konyagin, Sergei V., 2005h:41068**
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Vogt, Dietmar Structure theory of power series spaces of infinite type. (English and Spanish summaries) **2005e:46011**
Wang, Junming *see* **Li, Rong Lu, 2005a:46005**
Zakharyuta, V. P. *see* **Chalov, P. et al., 2005g:46008**

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46A40 Ordered topological linear spaces, vector lattices [see also 06F20, 46B40, 46B42]

Aliprantis, Charalambos D. (*with* Burkinshaw, Owen) ★ Locally solid Riesz spaces with applications to economics. **2005b:46010**
Alpay, S. (*with* Altin, B.; Tonyali, C.) On property (b) of vector lattices. (English summary) **2005a:46007**
— (*with* Emel′yanov, Eduard Yu.; Ercan, Zafer) A characterization of an order ideal in Riesz spaces. (English summary) **2005b:46011**
Altin, B. *see* **Alpay, S. et al., 2005a:46007**
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Bucur, Ileana A separation theorem in ordered space. (English summary)
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46A63 Topological invariants ((DN), (Ω), etc.)

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46A70 Saks spaces and their duals (strict topologies, mixed topologies, two-norm spaces, co-Saks spaces, etc.)

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46A80 Modular spaces

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46Bxx Normed linear spaces and Banach spaces; Banach lattices {For function spaces, see 46Exx.}

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46B03 Isomorphic theory (including renorming) of Banach spaces

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Bartal, Yair (*with* Linial, Nathan; Mendel, Manor; Naor, Assaf) Some low distortion metric Ramsey problems. (English summary) **2005h:46014**
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Emmanuele, G. Some permanence results of properties of Banach spaces. (English summary) **2005f:46015**
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Bonet, José Weighted spaces of holomorphic functions and operators between them. (English summary) **2005c:46025**
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Domański, Paweł Ideals of extendable and liftable operators. (English and Spanish summaries) **2005f:47148**
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Fonf, Vladimir P. (*with* Veselý, Libor) Infinite-dimensional polyhedrality. (English summary) **2005b:46029**
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46B04 Isometric theory of Banach spaces

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Martín Suarez, Miguel (*with* Oikhberg, Timur) An alternative Daugavet property. (English summary) **2005b:46023**
Oikhberg, Timur *see* **Martín Suarez, Miguel, 2005b:46023**
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Shatalova, O. A. *see* **Lyubich, Yurii I., 2005d:46018**
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46B07 Local theory of Banach spaces

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46B08 Ultraproduct techniques in Banach space theory [see also 46M07]

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46B15 Summability and bases [see also 46A35]

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46B20 Geometry and structure of normed linear spaces

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Saadati, R. (*with* Vaezpour, S. M.) Some results on fuzzy Banach spaces. (English summary) **2005g:46138**
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Sedaev, A. A. *see* **Lord, S. et al., 2005m:46050**
Spakowski, Andrzej On differentiable and Lipschitz selections in normed spaces. (English summary) **2005e:54024**
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Vaezpour, S. M. *see* **Saadati, R., 2005g:46138**
Verwulgen, S. *see* **Lowen, Robert, 2005m:46004**
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Yaguchi, Masato *see* **Sakai, Katsuro, 2005h:54009**
Zhu, Yu Can[1] *see* **Ai, Ying**

46Cxx Inner product spaces and their generalizations, Hilbert spaces {For function spaces, see 46Exx.}

46C05 Hilbert and pre-Hilbert spaces: geometry and topology (including spaces with semidefinite inner product)

Buhagiar, David (*with* Chetcuti, Emmanuel) On complete-cocomplete subspaces of an inner product space. (English summary) **2005m:46041**
Chetcuti, Emmanuel (*with* Dvurečenskij, Anatolij) Measures on the splitting subspaces of an inner product space. (English summary) **2005b:46048**
— *see also* **Buhagiar, David, 2005m:46041**
Dauxois, Jacques (*with* Nkiet, Guy Martial; Romain, Yves) Canonical analysis relative to a closed subspace. (English summary) **2005h:46039**
Dragomir, Sever Silvestru New reverses of Schwarz, triangle and Bessel inequalities in inner product spaces. (English summary) **2005f:46042**
— Reverses of the triangle inequality in inner product spaces. (English summary) **2005h:46040**
— Some Bombieri type inequalities in inner product spaces. (English summary) **2005f:46043**
— (*with* Pečarić, Josip E.; Tepeš, Božidar) Pre-Grüss type inequalities in inner product spaces. (English summary) **2005h:46041**
— Generalizations of Precupanu's inequality for orthonormal families of vectors in inner product spaces. (English summary) **2005k:46051**
— Some reverses of the generalised triangle inequality in complex inner product spaces. (English summary) **2005m:46042**
Dvurečenskij, Anatolij *see* **Chetcuti, Emmanuel, 2005b:46048**
Győry, Máté Transformations on the set of all n-dimensional subspaces of a Hilbert space preserving orthogonality. (English summary) **2005c:46024**
Hansen, Frank Lower bounds on products of correlation coefficients. (English summary) **2005b:46049**
Kadets, Vladimir Weak cluster points of a sequence and coverings by cylinders. (English summary) **2005e:46035**
Lauzon, Michael (*with* Treil, Sergei) Common complements of two subspaces of a Hilbert space. (English summary) **2005e:46036**
Nkiet, Guy Martial *see* **Dauxois, Jacques et al., 2005h:46039**
Pečarić, Josip E. *see* **Dragomir, Sever Silvestru et al., 2005h:46041**
Romain, Yves *see* **Dauxois, Jacques et al., 2005h:46039**
Saitoh, Saburou Generalizations of the triangle inequality. (English summary) **2005b:46050**
Tepeš, Božidar *see* **Dragomir, Sever Silvestru et al., 2005h:46041**
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Bóna, Pavel Some considerations on topologies of infinite dimensional unitary coadjoint orbits. (English summary) **2005f:58004**
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— (*with* Kutyniok, Gitta) Frames of subspaces. (English summary) **2005e:42090**
Dai, Xing De *see* **Gu, Qing[1] et al., 2005d:42029**
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Dragomir, Sever Silvestru ★ Discrete inequalities of the Cauchy-Bunyakovsky-Schwarz type. **2005i:26041**
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— Some new results related to Bessel and Grüss inequalities for orthogonal families in inner product spaces. (English summary) **2005k:26052**
Du, Hong-Ke *see* **Yao, Xi Yan, 2005b:46051**
Dutkay, Dorin Ervin Positive definite maps, representations and frames. (English summary) **2005e:42115**
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Győry, Máté A new proof of Wigner's theorem. (English summary) **2005k:81118**
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Kadets, Vladimir Coverings by convex bodies and inscribed balls. (English summary) **2005j:52011**
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Mostafazadeh, Ali $\mathcal{PT}$-symmetric quantum mechanics: a precise and consistent formulation. (English summary) **2005i:81041**
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Yang, De-yun (*with* Zhou, Xing-wei) Frame wavelets with matrix dilations in $L^2(\mathbf{R}^n)$. (English summary) **2005e:42132**
Yao, Xi Yan (*with* Du, Hong-Ke) Generalized frames and frame operators. (English and Chinese summaries) **2005b:46051**
Zhou, Jia Yun (*with* Liu, Yu[3]) The property of frame and atomic decomposition for Banach spaces. (Chinese. English and Chinese summaries) **2005d:46046**
Zhou, Xing-wei *see* **Yang, De-yun, 2005e:42132**

46C15 Characterizations of Hilbert spaces

Aizpuru Tomás, Antonio (*with* García-Pacheco, F. J.; Rambla, F.) Isometric reflection vectors in Banach spaces. (English summary) **2005g:46051**
Chelidze, G. Inner product spaces and minimal values of functionals. (English summary) **2005f:46044**
Chetcuti, Emmanuel (*with* Dvurečenskij, Anatolij) The existence of finitely additive states on orthogonally closed subspaces of incomplete inner product spaces. (English summary) **2005a:46050**
Du, Hong-Ke *see* **Yao, Xi Yan, 2005b:46051**
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García-Pacheco, F. J. *see* **Aizpuru Tomás, Antonio et al., 2005g:46051**
Kushmantseva, V. A. One more condition for the Hilbert property of a Banach space. (Russian. English and Russian summaries) **2005i:46026**
Rambla, F. *see* **Aizpuru Tomás, Antonio et al., 2005g:46051**
Randrianantoanina, Beata A characterization of Hilbert spaces. (English summary) **2005e:46037**
Saidi, Fathi B. A characterisation of Hilbert spaces via orthogonality and proximinality. (English summary) **2005m:46043**
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Anisca, Razvan Unconditional decompositions in subspaces of $l_2(X)$. (English summary) **2005k:46025**
Arendt, Wolfgang (*with* Bu, Shangquan) Operator-valued multiplier theorems characterizing Hilbert spaces. (English summary) **2005f:42017**
Bu, Shangquan *see* **Arendt, Wolfgang, 2005f:42017**
Drivaliaris, Dimosthenis (*with* Yannakakis, Nikolaos) Hilbert space structure and positive operators. (English summary) **2005m:46011**
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Stachó, László L. (*with* Zalar, Borut) Bicircular projections on some matrix and operator spaces. (English summary) **2005a:46146**
— (*with* Zalar, Borut) Bicircular projections and characterization of Hilbert spaces. (English summary) **2005b:46152**
Yannakakis, Nikolaos *see* **Drivaliaris, Dimosthenis, 2005m:46011**
Zalar, Borut *see* **Stachó, László L., 2005a:46146** *and* **2005b:46152**

46C20 Spaces with indefinite inner product (Kreĭn spaces, Pontryagin spaces, etc.) [see also 47B50]

Duma, Adrian (*with* Vladimirescu, Cristian) Fixed point free nonlinear contractions on Krein-like spaces. (English summary) **2005f:46045**
— (*with* Vladimirescu, Cristian) Non-decomposable inner product spaces. (English summary) **2005d:46047**
Everitt, W. Norrie (*with* Markus, Lawrence) Infinite dimensional complex symplectic spaces. (English summary) **2005d:46048**
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Markus, Lawrence *see* **Everitt, W. Norrie, 2005d:46048**
Senderov, V. A. *see* **Khatskevich, V. A. et al., 2005f:46046**
Shulman, Viktor S. *see* **Khatskevich, V. A. et al., 2005f:46046**
Vladimirescu, Cristian *see* **Duma, Adrian, 2005d:46047** *and* **2005f:46045**

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Alpay, Daniel (*with* Dijksma, Aad; Langer, Heinz) Factorization of J-unitary matrix polynomials on the line and a Schur algorithm for generalized Nevanlinna functions. (English summary) **2005b:47029**
Azizov, Tomas Ya. (*with* Shtraus, V. A.) Spectral decompositions for special classes of self-adjoint and normal operators on Krein spaces. (English summary) **2005e:47098**
— (*with* Barsukov, A. I.; Dijksma, Aad) Decompositions of a Krein space in regular subspaces invariant under a uniformly bounded C_0-semigroup of bicontractions. (English summary) **2005c:47050**
Barsukov, A. I. *see* **Azizov, Tomas Ya. et al., 2005c:47050**
Bolotnikov, Vladimir (*with* Kheĭfets, A. Ya.; Rodman, Leiba) Pairs of functions with indefinite Pick matrices. (English summary) **2005b:47031**
Bruzual, Ramón (*with* Domínguez, Marisela) On measurable operator valued indefinite functions with a finite number of negative squares. (English summary) **2005d:47068**
Constantinescu, Florin Definite and indefinite inner products on superspace (Hilbert-Krein superspace). (English summary) **2005k:81306**
Cui, Jian Lian (*with* Hou, Jin Chuan; Park, Chun Gil) Indefinite orthogonality preserving additive maps. (English summary) **2005h:47072**
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Domínguez, Marisela *see* **Bruzual, Ramón, 2005d:47068**
Hou, Jin Chuan *see* **Cui, Jian Lian et al., 2005h:47072**
Kheĭfets, A. Ya. *see* **Bolotnikov, Vladimir et al., 2005b:47031**
Langer, Heinz (*with* Langer, Matthias; Sasvári, Zoltán) Continuations of Hermitian indefinite functions and corresponding canonical systems: an example. (English summary) **2005k:47034**
— *see also* **Alpay, Daniel et al., 2005b:47029**
Langer, Matthias *see* **Langer, Heinz et al., 2005k:47034**
Lee, Byung Kwon (*with* Yang, Meehyea) A construction of Herglotz spaces. (English summary) **2005g:46013**
Navarro, Luis (*with* Shtraus, V. A.) On a definitizable analog of the trigonometric moment problem generating an indefinite Toeplitz form. (English summary) **2005k:47035**
Park, Chun Gil *see* **Cui, Jian Lian et al., 2005h:47072**
Rodman, Leiba *see* **Bolotnikov, Vladimir et al., 2005b:47031**
Sasvári, Zoltán *see* **Langer, Heinz et al., 2005k:47034**
Shtraus, V. A. *see* **Azizov, Tomas Ya., 2005e:47098** *and* **Navarro, Luis, 2005k:47035**
Vijayarangan, N. Non-associative Krein H^*-algebras. (English summary) **2005k:46126**
Yang, Meehyea *see* **Lee, Byung Kwon, 2005g:46013**

46C50 Generalizations of inner products (semi-inner products, partial inner products, etc.)

Budimir, I. (*with* Cho, Yeol Je; Matić, M.; Pečarić, Josip E.) Čebyšeb's inequality in n-inner product spaces. (English summary) [Chebyshev's inequality in n-inner product spaces] **2005b:46052**
Cho, Yeol Je (*with* Matić, M.; Pečarić, Josip E.) On Gram's determinant in n-inner product spaces. (English summary) **2005g:46052**
— *see also* **Budimir, I. et al., 2005b:46052**
Dragomir, Sever Silvestru ★ Semi-inner products and applications. **2005b:46053**
Matić, M. *see* **Budimir, I. et al., 2005b:46052** *and* **Cho, Yeol Je et al., 2005g:46052**
Pečarić, Josip E. *see* **Budimir, I. et al., 2005b:46052** *and* **Cho, Yeol Je et al., 2005g:46052**

Items with secondary classifications in 46C50

Bakić, Damir Tietze extension theorem for Hilbert C^*-modules. (English summary) **2005f:46113**
Gowda, Huche *see* **Lokesha, V., 2005h:47002**
Lokesha, V. (*with* Gowda, Huche) Some results on adjoint abelian and iso-abelian operators on Banach space. (English summary) **2005h:47002**
Trapani, Camillo (*with* Tschinke, Francesco) Partial multiplication of operators in rigged Hilbert spaces. (English summary) **2005m:47146**
— (*with* Tschinke, Francesco) Partial $*$-algebras of distributions. (English summary) **2005m:47147**
Tschinke, Francesco *see* **Trapani, Camillo, 2005m:47146** *and* **2005m:47147**

46C99 None of the above, but in this section

Alsina, Claudi (*with* Tomás, Maria Santos) Orthocenters in real normed spaces and the Euler line. (English summary) **2005f:46047**
Brnetić, Ilko (*with* Cho, Yeol Je; Kim, Seong Sik; Pečarić, Josip E.) On Aczél's inequality in 2-inner product spaces with applications. (English summary) **2005f:46048**
Cho, Yeol Je (*with* Matić, M.; Pečarić, Josip E.) Inequalities of Hlawka's type in G-inner product spaces. (English summary) (*see* **2005a:26002**)
— *see also* **Brnetić, Ilko et al., 2005f:46048**
Kim, Seong Sik *see* **Brnetić, Ilko et al., 2005f:46048**
Matić, M. *see* **Cho, Yeol Je et al., (2005a:26002)**
Pečarić, Josip E. *see* **Brnetić, Ilko et al., 2005f:46048** *and* **Cho, Yeol Je et al., (2005a:26002)**
Tomás, Maria Santos *see* **Alsina, Claudi, 2005f:46047**

Items with secondary classifications in 46C99

Cho, Yeol Je (*with* Matić, M.; Pečarić, Josip E.) On Gram's determinant in n-inner product spaces. (English summary) **2005g:46052**
— *see also* **Dragomir, Sever Silvestru et al., 2005m:26027**

Corach, Gustavo (*with* Pacheco, Miriam; Stojanoff, Demetrio) Geometry of epimorphisms and frames. (English summary) **2005e:42091**
Dragomir, Sever Silvestru A generalization of the Cassels and Greub-Reinboldt inequalities in inner product spaces. (English summary) **2005a:26021**
— Reverses of the continuous triangle inequality for Bochner integral of vector-valued functions in Hilbert spaces. (English summary)
— (*with* Cho, Yeol Je; Kang, Shin Min; Kim, Seong Sik; Jung, Jong Soo) Some Grüss' type inequalities in 2-inner product spaces and applications for determinantal integral inequalities. (English summary) **2005m:26027**
— *see also* **Kim, Seong Sik**, **2005b:26025**
Gao, Ming Zhe A new fundamental inequality and its applications. (English summary) **2005g:26026**
Jung, Jong Soo *see* **Dragomir, Sever Silvestru et al.**, **2005m:26027**
Kang, Shin Min *see* **Dragomir, Sever Silvestru et al.**, **2005m:26027**
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— *see also* **Dragomir, Sever Silvestru et al.**, **2005m:26027**
Lin, Chia-Shiang Characteristic properties for inequalities in Hilbert spaces. (English summary) **2005a:47031**
Matić, M. *see* **Cho, Yeol Je et al.**, **2005g:46052**
Mezrag, Lahcène On the L_1^{2n}-extension properties. (English summary) **2005k:46037**
Pacheco, Miriam *see* **Corach, Gustavo et al.**, **2005e:42091**
Pečarić, Josip E. (*with* Varošanec, Sanja) Some properties of n-norms generated by inner products. (English summary) **2005i:46025**
— *see also* **Cho, Yeol Je et al.**, **2005g:46052**
Pérez-García, David The inclusion theorem for multiple summing operators. (English summary) **2005i:47107**
Romero, Eduardo A complete Gabor system of zero Beurling density. (English summary) **2005e:42127**
Stojanoff, Demetrio *see* **Corach, Gustavo et al.**, **2005e:42091**
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Varošanec, Sanja *see* **Pečarić, Josip E.**, **2005i:46025**

46Exx Linear function spaces and their duals {For function algebras, see 46J10.}

Items with secondary classifications in 46Exx

(Grząślewicz, R.) *see* **Function spaces**, **2005b:46004**
(Hudzik, Henryk) *see* **Function spaces**, **2005b:46004**
(Musielak, Julian) *see* **Function spaces**, **2005b:46004**
(Ryll-Nardzewski, Czesław) *see* **Function spaces**, **2005b:46004**

Items listed otherwise than by author

Function spaces ★ Function spaces. **2005b:46004**
Wrocław ★ Function spaces. **2005b:46004**

46E05 Lattices of continuous, differentiable or analytic functions

Items with secondary classifications in 46E05

Banaschewski, Bernhard Ring theory and pointfree topology. **2005a:16016**
Edwards, David Albert Some characterizations of commutative subspace lattices. (English summary) **2005a:47139**
Ercan, Zafer A concrete description of $CD_0(K)$-spaces as $C(X)$-spaces and its applications. (English summary) **2005a:46008**
Garrido Carballo, María Isabel (*with* Montalvo Durán, Francisco) Generation of the uniformly continuous functions. (English summary) **2005a:54024**
Montalvo Durán, Francisco *see* **Garrido Carballo, María Isabel**, **2005a:54024**
Troitskiĭ, V. G. On $CD_0(K)$-spaces. (English summary) **2005d:46038**

46E10 Topological linear spaces of continuous, differentiable or analytic functions

Altun, M. (*with* Goncharov, A. P.) A local version of the Pawłucki-Pleśniak extension operator. (English summary) **2005i:46027**
Behnam, Hazem Shaba (*with* Srivastava, G. S.) On the space of analytic functions of two complex variables. (English summary) **2005d:46049**
Bonet, José Weighted spaces of holomorphic functions and operators between them. (English summary) **2005c:46025**
— (*with* Meise, Reinhold G.; Melikhov, Sergeĭ Nikolaevich) Holomorphic functions on locally closed convex sets and projective descriptions. (English summary) **2005a:46051**
— (*with* Meise, Reinhold G.) Quasianalytic functionals and projective descriptions. (English summary) **2005d:46050**
— (*with* Meise, Reinhold G.; Melikhov, Sergeĭ Nikolaevich) Projective representations of spaces of quasianalytic functionals. (English summary) **2005e:46038**
Bui Dac Tac (*with* Le Mau Hai; Nguyen Quang Dieu) The linear invariants $(\underline{DN})$ and $(\overline{\Omega})$ for spaces of germs of holomorphic functions on compact subsets of $\mathbf{C}^n$. (English summary) **2005b:46054**
Domański, Paweł (*with* Frerick, Leonhard; Vogt, Dietmar) Fréchet quotients of spaces of real-analytic functions. (English summary) **2005a:46052**
— (*with* Vogt, Dietmar) Infinite systems of linear equations for real analytic functions. (English summary) **2005g:46053**
Frerick, Leonhard *see* **Domański, Paweł et al.**, **2005a:46052**
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46E20 Hilbert spaces of continuous, differentiable or analytic functions

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46E22 Hilbert spaces with reproducing kernels (= [proper] functional Hilbert spaces, including de Branges-Rovnyak and other structured spaces) [see also 47B32]

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46E50 Spaces of differentiable or holomorphic functions on infinite-dimensional spaces [see also 46G20, 46G25, 47H60]

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46F15 Hyperfunctions, analytic functionals [see also 32A25, 32A45, 32C35, 58J15]

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46F20 Distributions and ultradistributions as boundary values of analytic functions [see also 30D40, 30E25, 32A40]

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46F25 Distributions on infinite-dimensional spaces [see also 58C35]

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46F30 Generalized functions for nonlinear analysis (Rosinger, Colombeau, nonstandard, etc.)

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— (*with* Hasler, Maximilian F.; Pilipović, Stevan S.; Valmorin, Vincent) Embeddings of ultradistributions and periodic hyperfunctions in Colombeau type algebras through sequence spaces. (English summary) **2005j:46026**
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Hasler, Maximilian F. *see* **Delcroix, Antoine et al.**, 2005d:46091 *and* **2005j:46026**
Hörmann, Günther (*with* Oberguggenberger, Michael) Elliptic regularity and solvability for partial differential equations with Colombeau coefficients. (English summary) **2005b:46086**
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Jelínek, Jiří On introduction of two diffeomorphism invariant Colombeau algebras. (English summary) **2005k:46098a**
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Scarpalézos, Dimitris Colombeau's generalized functions: topological structures; microlocal properties. A simplified point of view. II. (English summary) **2005k:46099**
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46F99 None of the above, but in this section

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46Gxx Measures, integration, derivative, holomorphy (all involving infinite-dimensional spaces) [see also 28–XX, 46Txx]

46G05 Derivatives [see also 46T20, 58C20, 58C25]

Bayoumi, Aboubakr General mean-value theorem and Taylor expansions for m-quasi-differentiable functions of locally bounded spaces. (English summary) **2005k:46100**
Cao, Huai Xin *see* **Jia, Yun Feng**
Fabian, Marián J. (*with* Kalenda, Ondřej F. K.; Kolář, Jan) Filling analytic sets by the derivatives of C^1-smooth bumps. (English summary) **2005f:46089**
Jia, Yun Feng (*with* Cao, Huai Xin) The Fréchet derivative of a nonlinear operator and its applications. (Chinese. English and Chinese summaries)
Kalenda, Ondřej F. K. *see* **Fabian, Marián J. et al.**, 2005f:46089
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Mukherjea, Kalyan ★ Differential calculus in normed linear spaces. **2005b:46088**
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Rolewicz, Stefan On differentiability of strongly $\alpha(\cdot)$-paraconvex functions in non-separable Asplund spaces. (English summary) **2005m:46067**
Serovaĭskiĭ, S. Ya. Sequentially differentiable operators. (Russian. English, Russian and Kazakh summaries) **2005i:46045**
Shkarin, Stanislav A. *see* **Smolyanov, O. G.**, 2005h:46070
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Azagra, Daniel (*with* Fry, Robb; Montesinos, Alejandro) Perturbed smooth Lipschitz extensions of uniformly continuous functions on Banach spaces. (English summary) **2005k:46028**
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Basaeva, E. K. Quasidifferentials in K-spaces. (Russian. Russian summary) **2005a:49027**
Bernard, Frédéric (*with* Thibault, Lionel) Prox-regular functions in Hilbert spaces. (English summary) **2005h:49043**
Borwein, Jonathan Michael (*with* Burke, James V.; Lewis, Adrian S.) Differentiability of cone-monotone functions on separable Banach space. (English summary) **2005a:49025**
— (*with* Cheng, Lixin; Fabian, Marián J.; Revalski, Julian P.) A one perturbation variational principle and applications. (English summary) **2005g:49027**
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Frölicher, Alfred Axioms for convenient calculus. (French summary) **2005g:46020**
Fry, Robb Approximation by functions with bounded derivative on Banach spaces. (English summary) **2005a:46030**
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Gaspari, Thierry Bump functions with Hölder derivatives. (English summary) **2005d:46157**
Georgiev, Pando Grigorov Porosity and differentiability in smooth Banach spaces. (English summary) **2005k:49049**
Giles, J. R. (*with* Sciffer, Scott) Extending pseudo-regularity for Lipschitz functions to Asplund generated spaces. (English summary) **2005g:52022**
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Kenderov, Petar S. (*with* Moors, Warren B.) A dual differentiation space without an equivalent locally uniformly rotund norm. (English summary) **2005h:46026**
Kolář, Jan (*with* Kristensen, Jan) Gradient ranges of bumps on the plane. (English summary) **2005k:26030**
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Mátrai, Tamás Graphs of Gâteaux derivatives are w^*-connected. (English summary) **2005h:26017**
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46G10 Vector-valued measures and integration [see also 28Bxx, 46B22]

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Delgado, Olvido L^1-spaces of vector measures defined on δ-rings. (English summary) **2005m:46068**
Gök, Ömer A note on integration with respect to vector measures. (English summary)
Jia, Feng Ling (*with* Ye, Guo Ju; Wang, Yin Ping) Convergence theorems for Banach-valued HL integrals. (Chinese. English and Chinese summaries)
Lyantse, V. È. (*with* Chuiko, G.) Rings of projectors and operator-valued measures. (English summary) **2005f:46090**
Martínez-Giménez, Félix (*with* Sánchez Pérez, E. A.) Vector measure range duality and factorizations of (D, p)-summing operators from Banach function spaces. (English summary) **2005a:46090**
Okada, Susumu (*with* Ricker, Werner J.) Fréchet-space-valued measures and the AL-property. (English and Spanish summaries) **2005c:46052**
— (*with* Ricker, Werner J.) Optimal domains and integral representations of convolution operators in $L^p(G)$. (English summary) **2005e:46071**
Oltra, Sandra (*with* Sánchez Pérez, E. A.; Valero, Oscar) Spaces $L_2(\lambda)$ of a positive vector measure λ and generalized Fourier coefficients. (English summary) **2005m:46069**
Picón, Abel (*with* Piñeiro, C.) Vector measure Banach spaces containing a complemented copy of c_0. (English summary) **2005b:46089**
Piñeiro, C. *see* **Picón, Abel**, 2005b:46089
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— *see also* **Martínez-Giménez, Félix**, 2005a:46090 *and* **Oltra, Sandra et al.**, 2005m:46069
Uglanov, A. V. On measures in locally convex spaces. (English summary) **2005c:46053**
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Boccuto, A. (*with* Skvortsov, Valentin) Henstock-Kurzweil type integration of Riesz-space-valued functions and applications to Walsh series. (English summary) **2005e:28020**
— (*with* Candeloro, Domenico) Convergence and decompositions for 1-group-valued set functions. (English summary) **2005m:28031**
— (*with* Riečan, Beloslav) On the Henstock-Kurzweil integral for Riesz-space-valued functions defined on unbounded intervals. (English summary) **2005g:28020**
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Dragomir, Sever Silvestru Quadratic reverses of the triangle inequality for Bochner integral in Hilbert spaces. (English summary) **2005h:26012**
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Duchoň, Miloslav (*with* Maličký, Peter) Moment problem in partially ordered vector spaces. (English summary) **2005f:28029**
Federson, Márcia Some peculiarities of the Henstock and Kurzweil integrals of Banach space-valued functions. (English summary) **2005b:28021**
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Heinonen, Teiko (*with* Lahti, Pekka; Ylinen, Kari) Covariant fuzzy observables and coarse-graining. (English summary) **2005f:81028**
Im, SungMo (*with* Kim, Yung-Jinn; Rim, Dong-Il) A uniform convergence theorem for approximate Henstock-Stieltjes integral. (English summary) **2005d:26028**
Jia, Feng Ling (*with* Ye, Guo Ju) A note on Henstock integrals of Banach-valued functions. (Chinese. English and Chinese summaries)
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— Borel products of Riesz space-valued measures on topological spaces. (English summary) **2005f:28030**
Kim, Yung-Jinn *see* **Im, SungMo et al., 2005d:26028**
Kovács, István[3] (*with* Száz, Árpád) Schauder bases in an abstract setting. (English summary) **2005c:46012**
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Lipecki, Zbigniew Denseness and Borel complexity of some sets of vector measures. (English summary) **2005m:28028**
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Mockenhaupt, Gerd (*with* Ricker, Werner J.) Fuglede's theorem, the bicommutant theorem and p-multiplier operators for the circle. (English summary) **2005i:47053**
Montefalcone, Francescopaolo Sets of finite perimeter associated with vector fields and polyhedral approximation. (English and Italian summaries) **2005g:49075**
Morales, Pedro *see* **De Lucia, Paolo, 2005e:28019**
Naralenkov, K. M. On integration by parts for Stieltjes-type integrals of Banach space-valued functions. (English summary) **2005m:26012**
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Panchapagesan, T. V. *see* **Dobrakov, I., 2005f:28025**
Park, Chun-Kee On McShane-Stieltjes integrals of interval-valued functions and fuzzy-number-valued functions. (English summary) **2005a:28025**
Preiss, D. *see* **Di Piazza, Luisa, 2005a:28023**
Reynolds, Richard (*with* Swartz, Charles W.) The Vitali convergence theorem for the vector-valued McShane integral. (English summary) **2005f:28026**
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Rodríguez Ruiz, José On the existence of Pettis integrable functions which are not Birkhoff integrable. (English summary) **2005k:28021**
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Sánchez Ruiz, Luis M. *see* **Ferrando, J. C., 2005b:46005**
Siggini, Kenny Koffi On the construction of set-valued measures. (English summary) **2005d:28025**
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Swartz, Charles W. Gauge integrals and series. (English summary) **2005g:28019**
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Villanueva Díez, Ignacio Integral multilinear forms on $C(K, X)$ spaces. (English summary) **2005b:46045**
Winter, Andreas "Extrinsic" and "intrinsic" data in quantum measurements: asymptotic convex decomposition of positive operator valued measures. (English summary) **2005g:81050**
Ye, Guo Ju (*with* An, Tian Qing) The strong Henstock integral and the Henstock integral for Banach-space-valued functions. (Chinese. English and Chinese summaries)
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46G12 Measures and integration on abstract linear spaces [see also 28C20, 46T12]

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Bolle, Yves Darboux-integrability and uniform convergence. (English summary) **2005e:46073**
Lyudkovskiĭ, S. V. Quasi-invariants and pseudodifferentiable measures with values in non-Archimedean fields on non-Archimedean Banach spaces. (Russian. English and Russian summaries) **2005d:46093**
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Steblovskaya, V. R. Finite dimensional images of smooth measures. (English summary) **2005k:46104**

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Caicedo, Xavier (*with* Enciso, Germán) The Hahn-Banach theory as a principle of choice. (Spanish. English and Spanish summaries) **2005e:46002**
Castaing, Charles (*with* Raynaud de Fitte, Paul; Valadier, Michel) ★ Young measures on topological spaces. **2005k:28001**
Chang, Kun Soo (*with* Cho, Dong Hyun; Yoo, Il) Evaluation formulas for a conditional Feynman integral over Wiener paths in abstract Wiener space. (English summary) **2005j:28021**
— *see also* **Yoo, Il et al., 2005a:28027**
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Cho, Dong Hyun *see* **Chang, Kun Soo et al., 2005j:28021**
Dedić, Ljuban Poisson random fields with control measures. II. (English summary) **2005c:60067**
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Fomina, T. A. On the equivalence of two Gaussian measures generated by solutions of linear evolution equations in a Hilbert space H. (Russian. English summary) **2005j:28022**
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46Hxx Topological algebras, normed rings and algebras, Banach algebras {For group algebras, convolution algebras and measure algebras, see 43A10, 43A20.}

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46H05 General theory of topological algebras

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Khelemskiĭ, A. Ya. Some aspects of topological homology since 1995: a survey. (English summary) **2005i:46079**
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— (*with* Asgari, M. S.) Frames and bases in Hilbert modules over locally C^*-algebras. (English summary) **2005c:46085**
Losert, Viktor Weakly compact multipliers on group algebras. (English summary) **2005h:43002**
Magajna, Bojan Duality and normal parts of operator modules. (English summary) **2005k:46152**
Monod, Nicolas Stabilization for SL_n in bounded cohomology. (English summary) **2005f:22016**
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Runde, Volker Applications of operator spaces to abstract harmonic analysis. (English summary) **2005g:43002**
Samei, Ebrahim Bounded and completely bounded local derivations from certain commutative semisimple Banach algebras. (English summary) **2005f:46103**
Todorov, Ivan G. *see* **Anoussis, M., 2005e:46091**
Vakily, Ghodsieh Application of M-adic topology in Banach algebras. (English summary) **2005c:46062**
Villena Muñoz, Armando R. *see* **Alaminos, Jerónimo et al., 2005f:47085**
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46H30 Functional calculus in topological algebras [see also 47A60]

Aharmim, Bouchra (*with* Arroub, Hamid) Calcul fonctionnel holomorphe dans les algèbres p-Banach quotients. (English summary) [Holomorphic functional calculus in quotient p-Banach algebras] **2005h:46076**
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Arroub, Hamid *see* **Aharmim, Bouchra, 2005h:46076**
Harte, Robin E. (*with* Taylor, Ciaran) The functional calculus and all that. (English summary) **2005e:46086**
Herzog, Gerd (*with* Schmoeger, Christoph) On a theorem of Vesentini. (English summary) **2005c:46066**
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Fitzsimmons, Patrick J. Superposition operators on Dirichlet spaces. (English summary) **2005k:31027**
Jefferies, Brian Applications of the monogenic functional calculus for noncommuting systems of operators. (English summary) **2005k:47037**
— Function theory in sectors. (English summary) **2005f:47045**
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46H35 Topological algebras of operators [See mainly 47Lxx]

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Tylli, Hans-Olav Exotic algebra norms on quotient algebras of the bounded linear operators. (English summary) **2005a:47134**
Żelazko, Wiesław Concerning topologization of the algebra $L(X)$. **2005c:46063**

46H40 Automatic continuity

Extremera, J. (*with* Villena Muñoz, Armando R.) Separating ideals in group algebras. (English summary) **2005j:46031**
Hassani, Mahmoud (*with* Niknam, A.) On C_0-group of linear operators. (English and Persian summaries) **2005a:46103**
Kopp, M. K. On the existence of elements of non-nilpotent finite closed descent in commutative radical Fréchet algebras. (English summary) **2005b:46107**
Niknam, A. *see* **Hassani, Mahmoud, 2005a:46103**
Oukhtite, L. (*with* Tajmouati, Abdelaziz; Tidli, Y.) Sur la continuité automatique des épimorphismes dans les $\star$-algèbres de Banach. (French summary) [Automatic continuity of epimorphisms in Banach $\star$-algebras] **2005e:46087**
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Alaminos, Jerónimo (*with* Mathieu, Martin; Villena Muñoz, Armando R.) Symmetric amenability and Lie derivations. (English summary) **2005g:46092**
Araujo, Jesús Linear biseparating maps between spaces of vector-valued differentiable functions and automatic continuity. (English summary) **2005c:47040**
Boudi, Nadia (*with* Marhnine, Hassan; Zarhouti, Chafika) Additive derivations on Jordan Banach pairs. (English summary) **2005i:17040**
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Khosravi, Amir Derivations on p-Banach algebras. (English summary) **2005b:46108**
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Mathieu, Martin Another automatic boundedness technique. (English summary) **2005k:46136**
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Moreno Bas, Elías (*with* Villena Muñoz, Armando R.) Uniqueness of dilation invariant norms. (English summary) **2005b:46063**
Steiniger, Holger On the Beurling algebras $A^+_\alpha(\mathbb{D})$—derivations and extensions. (English summary) **2005e:46090**
Villena Muñoz, Armando R. *see* **Moreno Bas, Elías, 2005b:46063** *and* **Alaminos, Jerónimo et al., 2005g:46092**
Wong, Ngai-Ching *see* **Brown, Lawrence G., 2005h:46078**
Zarhouti, Chafika *see* **Boudi, Nadia et al., 2005i:17040**
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46H70 Nonassociative topological algebras [see also 46K70, 46L70]

Maouche, Abdelaziz Diagonalization in Banach algebras and Jordan-Banach algebras. **2005h:46077**

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Friedman, Yaakov ★ Physical applications of homogeneous balls. **2005m:32044**

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Karimov, A. K. *see* **Ganiev, I. G., 2005c:46102**
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(Scarr, Tzvi) *see* **Friedman, Yaakov, 2005m:32044**
Zarhouti, Chafika *see* **Boudi, Nadia et al., 2005i:17040**

46H99 None of the above, but in this section

Dupré, Maurice J. (*with* Glazebrook, James F.) Relative inversion and embeddings. (English summary) **2005e:46088**
Glazebrook, James F. *see* **Dupré, Maurice J., 2005e:46088**
Hirasawa, Go *see* **Miura, Takeshi et al., 2005f:46097**
Khosravi, Amir Derivations on p-Banach algebras. (English summary) **2005b:46108**
Kissin, Edward (*with* Lomonosov, Victor; Shulman, Viktor S.) Implementation of derivations and invariant subspaces. (English summary) **2005f:46096**
Lomonosov, Victor *see* **Kissin, Edward et al., 2005f:46096**
Miura, Takeshi (*with* Hirasawa, Go; Takahasi, Sin-Ei) Stability of multipliers on Banach algebras. (English summary) **2005f:46097**
Shulman, Viktor S. *see* **Kissin, Edward et al., 2005f:46096**
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Srivastava, Rajiv K. (*with* Srivastava, Naveen K.) On a class of entire double Dirichlet sequences. (English summary) **2005d:46105**
Tajmouati, Abdelaziz (*with* Zinedine, Ahmed) Éléments bornants et éléments singuliers permanents dans la classe des algèbres bornologiques. (English summary) [Bounding elements and permanently singular elements in the class of bornological algebras] **2005b:46109**
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Arahovitis, John Summarizing conditions leading to chaos in Fréchet topological algebras. (English summary) **2005e:37029**
Chmieliński, Jacek Linear mappings approximately preserving orthogonality. (English summary) **2005m:46118**
Dhage, Bupurao C. Multivalued operators and fixed-point theorems in Banach algebras. II. (English summary) **2005m:47109**
Ghaffari, Ali. Convolution operators on the dual of hypergroup algebras. (English summary) **2005d:43005**
Jun, Kil-Woung (*with* Kim, Hark-Mahn) On the stability of the quadratic equation in Banach modules over a Banach algebra. (English summary) **2005f:39075**
Karaev, Mubariz T. (*with* Mustafayev, H. S.) On some properties of Deddens algebras. (English summary) **2005f:47153**
Khudyakov, V. A. Quasivarieties of metric algebras. (Russian. Russian summary) **2005c:20042**
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Mecheri, Salah Non-normal derivation and orthogonality. (English summary) **2005i:47056**
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Park, Chun Gil Universal Jensen's equations in Banach modules over a C^*-algebra and its unitary group. (English summary) **2005k:39044**
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46Jxx Commutative Banach algebras and commutative topological algebras [see also 46E25]

Items with secondary classifications in 46Jxx

(Lau, Anthony To-Ming) *see* **Banach algebras and their applications, 2005f:00009**
(Runde, Volker) *see* **Banach algebras and their applications, 2005f:00009**

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46J05 General theory of commutative topological algebras

Arizmendi-Peimbert, Hugo (*with* Carrillo-Hoyo, Angel) On the m-convexity of $C_b(X)$. (English summary) **2005c:46067**
Carrillo-Hoyo, Angel *see* **Arizmendi-Peimbert, Hugo, 2005c:46067**
Kaniuth, Eberhard Weak spectral synthesis for the projective tensor product of commutative Banach algebras. (English summary) **2005c:46068**
Mallios, Anastasios (*with* Oukhouya, Ali) k-algèbres topologiques. (English summary) [Topological k-algebras] **2005m:46080**
Oukhouya, Ali *see* **Mallios, Anastasios, 2005m:46080**
Sady, F. Existence of an algebra norm on certain subalgebras of $C(X)$. (English and Persian summaries)
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Vesentini, Edoardo Weighted composition operators and the Gleason-Kahane-Zelazko theorem. (English summary) **2005g:46096**

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Andersson, Mats Erik Integrable factors in compact Schur multipliers. (English summary) **2005h:47039**
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Bhatt, Subhash J. (*with* Dedania, H. V.) Beurling algebras and uniform norms. (English summary) **2005a:43005**
Chang, Mei-Chu A sum-product theorem in semi-simple commutative Banach algebras. (English summary) **2005g:11026**
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Dineen, Seán Spectral theory, tensor products and infinite dimensional holomorphy. (English summary) **2005c:46056**
Escassut, Alain Shilov boundary and topological divisors of zero. (English summary) **2005f:46135**
Graham, Colin C. A B.A.I. proof of the non-Arens regularity of $L^1(\mathscr{G})$. (English summary) **2005h:43004**
Hadjigeorgiou, Rodia I. On some more characterizations of Q-algebras. (English summary) **2005a:46098**
— On a theorem of Mullins in general topological algebras. **2005e:46082**
Haralampidou, Marina Classification of locally m-convex algebras through Le Page condition. (English summary) **2005k:46111**
Harte, Robin E. Arens-Royden and the spectral landscape. (English summary) **2005f:46092**
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Kopp, M. K. On the existence of elements of non-nilpotent finite closed descent in commutative radical Fréchet algebras. (English summary) **2005b:46107**
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Spilker, Jürgen *see* **Schlage-Puchta, Jan-Christoph et al., 2005i:11006** *and* **2005i:11007**
Taylor, Ciaran *see* **Harte, Robin E., 2005e:46086**

46J10 Banach algebras of continuous functions, function algebras [see also 46E25]

Behrouzi, F. (*with* Mahyar, H.) Compact endomorphisms of $\mathrm{Lip}_A(\mathbf{D})$. (English summary) **2005m:46081**
— (*with* Mahyar, H.) Compact homomorphisms of URM algebras. (English summary) **2005j:46032**
Bilalov, Bilal T. On a Stone-Weierstrass theorem. (English summary) **2005k:46121**
Briem, Eggert An extension of a theorem of Wermer, Bernard, Sidney and Hatori to algebras of functions on locally compact spaces. (English summary) **2005b:46110**
Brown, Lawrence G. (*with* Wong, Ngai-Ching) Unbounded disjointness preserving linear functionals. (English summary) **2005h:46078**
Čerych, Jan A characterization of essential sets of function algebras. (English summary) **2005g:46097**
Crabb, M. J. (*with* Duncan, John; McGregor, C. M.) Spectra in some inverse semigroup algebras. (English summary) **2005m:46082**
Duncan, John *see* **Crabb, M. J. et al., 2005m:46082**
Ebadian, Ali (*with* Ostadbashi, S.) Star homomorphisms on $C_0(X,\tau)$. (English summary) **2005h:46079**
— Compact endomorphisms in Lipschitz algebras of finitely differentiable functions. (English summary) **2005b:46111**
Feinstein, Joel F. A counterexample to a conjecture of S. E. Morris. (English summary) **2005f:46098**
Heath, M. J. A note on a construction of J. F. Feinstein. (English summary) **2005m:46083**
Hwang, Sunwook (*with* Kwon, Oh Sang) A note on the Choquet boundary of tensor products. (English summary) **2005i:46059**
Ilie, Monica On Fourier algebra homomorphisms. (English summary) **2005e:46089**
Izuchi, Keiji (*with* Suárez, Daniel) Norm closed invariant subspaces in L^∞ and H^∞. (English summary) **2005a:46104**
Kosiek, Marek Measures orthogonal to tensor products of function algebras. (English summary) **2005g:46098**
Kwon, Oh Sang *see* **Hwang, Sunwook, 2005i:46059**
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Matheson, Alec L. Isometries into function algebras. (English summary) **2005f:46099**
McGregor, C. M. *see* **Crabb, M. J. et al., 2005m:46082**

Mirzoev, Vidadi S. Stone-Weierstrass approximation theorem for piecewise continuous functions. (English summary) **2005k:46122**
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Paulsen, Vern I. (*with* Singh, Dinesh[1]) Bohr's inequality for uniform algebras. (English summary) **2005k:46123**
Rao, N. V. (*with* Roy, Ashoke K.) Multiplicatively spectrum-preserving maps of function algebras. (English summary) **2005k:46124**
— (*with* Roy, Ashoke K.) Multiplicatively spectrum-preserving maps of function algebras. II. (English summary) **2005k:46125**
Roy, Ashoke K. *see* **Rao, N. V.**, **2005k:46124** *and* **2005k:46125**
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Suárez, Daniel *see* **Izuchi, Keiji**, **2005a:46104**
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Andreou, Themistokles Density of Lipschitz functions. (English summary) **2005k:46083**
Behrouzi, F. (*with* Mahyar, H.) Compact endomorphisms of certain subalgebras of the disc algebra. (English and Persian summaries)
Bhatnagar, Savita Spaces of multipliers and their preduals for the order multiplication on [0, 1]. II. (English summary) **2005e:43004**
Boulabiar, Karim (*with* Hadded, Fatma) A class of Archimedean lattice ordered algebras. (English summary) **2005c:06014**
Bukhshtaber, Viktor Matveevich (*with* Rees, Elmer G.) Rings of continuous functions, symmetric products, and Frobenius algebras. (Russian. Russian summary) **2005f:54031**
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Forrest, B. E. Completely bounded multipliers and ideals in $A(G)$ vanishing on closed subgroups. (English summary) **2005h:43003**
Grigoryan, Suren A. (*with* Tonev, Toma V.) Shift-invariant algebras on groups. (English summary) **2005h:43005**
Hadded, Fatma *see* **Boulabiar, Karim**. **2005c:06014**
Izzo, Alexander J. *see* **Anderson, John T. et al.**, **2005b:32023**
Jurzak, J.-P. Global C^m-approximations in $\mathbb{R}^k$. (English summary) **2005i:46028**
Kamiya, Yuichi Remarks on the Lindelöf hypothesis. (English summary) **2005k:11177**
Kunen, Kenneth The complex Stone-Weierstrass property. (English summary) **2005k:54025**
Lau, Anthony To-Ming Fixed point and related properties for the Fourier and Fourier Stieltjes algebra of a locally compact group. **2005g:43006**
Mahyar, H. *see* **Behrouzi, F.**
Miana, Pedro J. Almost-distribution cosine functions and integrated cosine functions. (English summary) **2005i:47072**
Misra, Gadadhar *see* **Douglas, Ronald G.**, **2005g:46076**
Mortini, Raymond Maximal Gleason parts and support sets for trivial points. (English summary) **2005f:46102**
Nguetseng, Gabriel Homogenization structures and applications. II. (English summary) **2005g:35016**
Rees, Elmer G. *see* **Bukhshtaber, Viktor Matveevich**, **2005f:54031**
Sady, F. Existence of an algebra norm on certain subalgebras of $C(X)$. (English and Persian summaries)
Tonev, Toma V. *see* **Grigoryan, Suren A.**, **2005h:43005**
Ülger, A. A characterization of the closed unital ideals of the Fourier-Stieltjes algebra $B(G)$ of a locally compact amenable group G. (English summary) **2005g:46095**
Vesentini, Edoardo Weighted composition operators and the Gleason-Kahane-Zelazko theorem. (English summary) **2005g:46096**
Wermer, John *see* **Anderson, John T. et al.**, **2005b:32023**
Zarrabi, Mohamed Interpolating sets for spaces of functions with derivatives in the Wiener algebra. (English summary) **2005b:42005**

46J15 Banach algebras of differentiable or analytic functions, H^p-spaces [see also 30D55, 30H05, 32A35, 32A37, 32A38, 42B30]

Bland, William J. (*with* Feinstein, Joel F.) Completions of normed algebras of differentiable functions. (English summary) **2005m:46084**
Brudnyi, Alexander Projections in the space H^∞ and the corona theorem for subdomains of coverings of finite bordered Riemann surfaces. (English summary) **2005f:46100**
Carboni, Graciela (*with* Larotonda, Angel) A characterization of holomorphic germs on compact perfect sets. (English summary) **2005f:46101**
Feinstein, Joel F. (*with* Kamowitz, Herbert) Compact homomorphisms between Dales-Davie algebras. (English summary) **2005g:46099**
— (*with* Kamowitz, Herbert) Compact endomorphisms of Banach algebras of infinitely differentiable functions. (English summary) **2005b:46112**
— *see also* **Bland, William J.**, **2005m:46084**
Guo, Kunyu (*with* Hou, Shen Zhao) Quasi-invariant subspaces generated by polynomials with nonzero leading terms. (English summary) **2005d:46107**
Hou, Shen Zhao *see* **Guo, Kunyu**, **2005d:46107**
Kamowitz, Herbert *see* **Feinstein, Joel F.**, **2005b:46112** *and* **2005g:46099**
Larotonda, Angel *see* **Carboni, Graciela**, **2005f:46101**
Moraes, L. A. (*with* Romero Grados, L.) Boundaries for an algebra of bounded holomorphic functions. (English summary) **2005c:46069**
Mortini, Raymond Maximal Gleason parts and support sets for trivial points. (English summary) **2005f:46102**
Nawrocki, Marek Locally convex structure of some algebras of holomorphic functions of several variables. (English summary) **2005c:46070**
Romero Grados, L. *see* **Moraes, L. A.**, **2005c:46069**
Steiniger, Holger On the Beurling algebras $A_\alpha^+(\mathbb{D})$—derivations and extensions. (English summary) **2005e:46090**
Trent, Tavan T. An H^2-corona theorem on the bidisk for infinitely many functions. (English summary) **2005d:46108**

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Arzolay, Wilmer (*with* Ramos Fernández, Julio C.) Sets in which the Besov norm is attained. (Spanish. Spanish summary) **2005g:30063**
Behrouzi, F. (*with* Mahyar, H.) Compact endomorphisms of certain subalgebras of the disc algebra. (English and Persian summaries)
— (*with* Mahyar, H.) Compact homomorphisms of URM algebras. (English summary) **2005j:46032**
Bezanilla López, Arnoldo (*with* Contreras J., Roberto) Maximum modulus principle for power series on a Banach algebra. (Spanish. English and Spanish summaries) **2005k:46105**
Bharali, Gautam On peak-interpolation manifolds for $A(\Omega)$ for convex domains in $\mathbb{C}^n$. (English summary) **2005f:32009**
Blasco, Oscar A remark on Carleson measures from H^p to $L^q(\mu)$ for $0 < p < q < \infty$. (English summary) **2005i:30035**
Chernega, Ī. V. (*with* Zagorodnyuk, A. V.) Application of generalized Rademacher functions to investigation of algebras of symmetric analytic functions on $L_p[0, 1]$. (English and Russian summaries) **2005d:46095**
— *see also* **Zagorodnyuk, A. V.**, **2005e:46075**
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46J20 Ideals, maximal ideals, boundaries

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46J40 Structure, classification of commutative topological algebras

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46Kxx Topological (rings and) algebras with an involution [see also 16W10]

46K05 General theory of topological algebras with involution

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46K10 Representations of topological algebras with involution

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46K50 Nonselfadjoint (sub)algebras in algebras with involution

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46K70 Nonassociative topological algebras with an involution [see also 46H70, 46L70]

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46Lxx Selfadjoint operator algebras (C^*-algebras, von Neumann (W^*-) algebras, etc.) [see also 22D25, 47Lxx]

46L05 General theory of C^*-algebras

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46L51 Noncommutative measure and integration

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46L52 Noncommutative function spaces

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46L53 Noncommutative probability and statistics

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46L54 Free probability and free operator algebras

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46L55 Noncommutative dynamical systems [see also 28Dxx, 37Kxx, 37Lxx, 54H20]

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46L87 Noncommutative differential geometry [see also 58B32, 58B34, 58J22]

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46L89 Other "noncommutative" mathematics based on C^*-algebra theory [see also 58B32, 58B34, 58J22]

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46Mxx Methods of category theory in functional analysis [see also 18–XX]

46M05 Tensor products [see also 46A32, 46B28, 47A80]

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46M07 Ultraproducts [see also 46B08, 46S20]

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46M15 Categories, functors {For K-theory, EXT, etc., see 19K33, 46L80, 46M18, 46M20.}

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46M18 Homological methods (exact sequences, right inverses, lifting, etc.)

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46M20 Methods of algebraic topology (cohomology, sheaf and bundle theory, etc.) [see also 14F05, 18Fxx, 19Kxx, 32Cxx, 32Lxx, 46L80, 46M15, 46M18, 55Rxx]

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46M35 Abstract interpolation of topological vector spaces [see also 46B70]

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46M40 Inductive and projective limits [see also 46A13]

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46M99 None of the above, but in this section

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46Nxx Miscellaneous applications of functional analysis [see also 47Nxx]

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46N10 Applications in optimization, convex analysis, mathematical programming, economics

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46N50 Applications in quantum physics

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46N55 Applications in statistical physics

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Choi, Veni Quantum dynamical semigroup and its asymptotic behaviors. (English summary) **2005a:46141**
Dereziński, Jan (*with* Jakšić, Vojkan; Pillet, Claude-Alain) Perturbation theory of W^*-dynamics, Liouvilleans and KMS-states. (English summary) **2005b:46151**
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Gough, John Edward The open XY model. (English summary) **2005e:82069**
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Hiai, Fumio Free analog of pressure and its Legendre transform. (English summary) **2005k:46178**
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Neshveev, S. V. *see* **Laca, Marcelo**, **2005m:46104**
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46N60 Applications in biology and other sciences

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Li, Hai *see* **Du, Shi Ping**, **2005a:60115**

46N99 None of the above, but in this section

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Fuglede, Bent Spirals in Hilbert space: with an application in information theory. (English summary) **2005m:47085**
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46Sxx Other (nonclassical) types of functional analysis [see also 47Sxx]

46S10 Functional analysis over fields other than R or C or the quaternions; non-Archimedean functional analysis [see also 12J25, 32P05]

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Śliwa, Wiesław On topological classification of non-Archimedean Fréchet spaces. (English summary) **2005c:46112**
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Teitelbaum, Jeremy *see* **Schneider, Peter[1], 2005h:14059**
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46S20 Nonstandard functional analysis [see also 03H05]

(Hoskins, Roy Frank) *see* **Sousa Pinto, J., 2005g:46137**
Li, Bang-he (*with* Li, Ya Qing) Defining new generalized functions by nonstandard discrete functions and difference quotients. (English and Chinese summaries) **2005m:46115**
Li, Ya Qing *see* **Li, Bang-he, 2005m:46115**
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46S30 Constructive functional analysis [see also 03F60]

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46S40 Fuzzy functional analysis [see also 03E72]

Amemiya, Masato Shadows of fuzzy sets on Banach spaces. (English summary) **2005h:46108**
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46S50 Functional analysis in probabilistic metric linear spaces

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46S60 Functional analysis on superspaces (supermanifolds) or graded spaces [see also 58A50 and 58C50]

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Constantinescu, Florin Supersymmetric positivity and supersymmetric Hilbert space. (English summary) **2005a:81216**

46S99 None of the above, but in this section

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46Txx Nonlinear functional analysis [see also 47Hxx, 47Jxx, 58Cxx, 58Dxx]

46T10 Manifolds of mappings

Items with secondary classifications in 46T10

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46T12 Measure (Gaussian, cylindrical, etc.) and integrals (Feynman, path, Fresnel, etc.) on manifolds [see also 28Cxx, 46G12, 60–XX]

Items with secondary classifications in 46T12

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46T20 Continuous and differentiable maps [see also 46G05]

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46T25 Holomorphic maps [see also 46G20]

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Elin, Mark (*with* Reich, Simeon; Shoikhet, David) Complex dynamical systems and the geometry of domains in Banach spaces. **2005g:47118**

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Thai Thuan Quang Some characterizations of the properties $\widetilde{LB}^\infty$ and LB_∞. (English summary) **2005g:46018**

46T30 Distributions and generalized functions on nonlinear spaces [see also 46Fxx]

Items with secondary classifications in 46T30

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46T99 None of the above, but in this section

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Items with secondary classifications in 46T99

Dutrieux, Yves (*with* Kalton, Nigel J.) Perturbations of isometries between $C(K)$-spaces. (English summary) **2005g:46056**

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47–XX Operator theory

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Goldberg, Seymour *see* **Gohberg, Israel et al., 2005g:47001**
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Godement, Roger ★ Analyse mathématique. IV. (French) [Mathematical analysis. IV] **2005k:11002**
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Shakarchi, Rami *see* **Stein, Elias M., 2005k:28024**
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47–02 Research exposition (monographs, survey articles)

Aiena, Pietro ★ Fredholm and local spectral theory, with applications to multipliers. **2005e:47001**
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47–03 Historical (must also be assigned at least one classification number from Section 01)

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47–06 Proceedings, conferences, collections, etc.

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47Axx General theory of linear operators

47A05 General (adjoints, conjugates, products, inverses, domains, ranges, etc.)

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47A12 Numerical range, numerical radius

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47A48 Operator colligations (= nodes), vessels, linear systems, characteristic functions, realizations, etc.

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47A75 Eigenvalue problems [see also 49R50]

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47Bxx Special classes of linear operators

47B06 Riesz operators; eigenvalue distributions; approximation numbers, s-numbers, Kolmogorov numbers, entropy numbers, etc. of operators

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47B07 Operators defined by compactness properties

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"Compactness of composition operators on a Hilbert space of Dirichlet series" Erratum to: "Compactness of composition operators on a Hilbert space of Dirichlet series" [J. Funct. Anal. **211** (2004), no. 2, 271–287; MR2056832 (2005c:47029)] by C. Finet, H. Queffélec and A. Volberg. **2005h:47047**

47B10 Operators belonging to operator ideals (nuclear, p-summing, in the Schatten-von Neumann classes, etc.) [see also 47L20]

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47B15 Hermitian and normal operators (spectral measures, functional calculus, etc.)

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47B20 Subnormal operators, hyponormal operators, etc.

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47B35 Toeplitz operators, Hankel operators, Wiener-Hopf operators [see also 45P05, 47G10 for other integral operators; see also 32A25, 32M15]

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47B49 Transformers (= operators on spaces of operators)

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47D99 None of the above, but in this section

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47E05 Ordinary differential operators [see also 34Bxx, 34Lxx]

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47G20 Integro-differential operators [see also 34K30, 35R10, 45J05, 45K05]

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47H07 Monotone and positive operators on ordered Banach spaces or other ordered topological vector spaces

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47H09 Nonexpansive mappings, and their generalizations (ultimately compact mappings, measures of noncompactness and condensing mappings, A-proper mappings, K-set contractions, etc.)

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— (*with* Shahzad, Naseer; Zegeye, Habtu) Convergence theorems for mappings which are asymptotically nonexpansive in the intermediate sense. (English summary) **2005k:47109**
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— (*with* Li, Jinlu; Udomene, A.) Convergence of paths and approximation of fixed points of asymptotically nonexpansive mappings. (English summary) **2005f:47122**
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— Asymptotic behavior of quasi-autonomous expansive type evolution systems in a Hilbert space. (English summary) **2005c:47075**
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— Strong convergence of Krasnoselskii and Mann's type sequences for one-parameter nonexpansive semigroups without Bochner integrals. (English summary) **2005j:47055**
Takahashi, Wataru *see* **Matsushita, Shin-ya, 2005a:47097**; **Atsushiba, Sachiko, 2005i:47081** *and* **2005k:47108**
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47H14 Perturbations of nonlinear operators

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47H30 Particular nonlinear operators (superposition, Hammerstein, Nemytskiĭ, Uryson, etc.) [see also 45Gxx, 45P05]

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47H40 Random operators [see also 60H25]

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Shahzad, Naseer Random fixed points of pseudo-contractive random operators. (English summary) **2005m:47126**
— Some general random coincidence point theorems. (English summary) **2005e:47137**
— *see also* **Dhage, Bupurao C., 2005k:47143**
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47H60 Multilinear and polynomial operators [see also 46G25]

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47Jxx Equations and inequalities involving nonlinear operators {For global and geometric aspects, see 58–XX.}

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47J06 Nonlinear ill-posed problems

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Errata: (*cont'd.*)
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47L15 Operator algebras with symbol structure

Items with secondary classifications in 47L15

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47L20 Operator ideals

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47L25 Operator spaces (= matricially normed spaces) [see also 46L07]

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— Completely bounded maps into certain Hilbertian operator spaces. **2005g:46114**
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47L30 Abstract operator algebras on Hilbert spaces

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47L35 Nest algebras, CSL algebras

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— Rank-one operators in reflexive one-sided $\mathscr{A}$-submodules. (English summary) **2005e:47148**
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Ji, Guo-Xing *see* **Zhang, Jian Hua[4] et al.**, **2005f:47088**
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Qiu, Li (*with* Chen, Tong Wen) Unitary dilation approach to contractive matrix completion. (English summary) **2005m:15079**
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47L40 Limit algebras, subalgebras of C^*-algebras

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Ji, Pei Sheng (*with* Wang, Lin[4]) Closed Lie ideals in the GICAR algebra. (Chinese. English and Chinese summaries) **2005m:47145**
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47L45 Dual algebras; weakly closed singly generated operator algebras

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Didas, Michael Dual algebras generated by von Neumann n-tuples over strictly pseudoconvex sets. (English summary) **2005d:47009**
Kosiek, Marek (*with* Octavio, Alfredo) On common invariant subspaces for commuting contractions with rich spectrum. (English summary) **2005h:47015**
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Shulman, Viktor S. (*with* Turowska, Lyudmila B.) Operator synthesis. I. Synthetic sets, bilattices and tensor algebras. (English summary) **2005f:47152**
Solel, Baruch *see* **Blecher, David P.**, **2005e:47146**
Turowska, Lyudmila B. *see* **Shulman, Viktor S.**, **2005f:47152**

47L50 Dual spaces of operator algebras

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Pisier, Gilles The operator Hilbert space OH and type III von Neumann algebras. (English summary) **2005c:46082**

Samei, Ebrahim Bounded and completely bounded local derivations from certain commutative semisimple Banach algebras. (English summary) **2005f:46103**

47L55 Representations of (nonselfadjoint) operator algebras

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47L60 Algebras of unbounded operators; partial algebras of operators

Antoine, Jean-Pierre (*with* Inoue, Atsushi[2]; Trapani, Camillo) ★ Partial *-algebras and their operator realizations. **2005d:47116**
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— *see also* **Antoine, Jean-Pierre et al., 2005d:47116**; **Bagarello, Fabio et al., 2005e:47150** *and* **Bhatt, Subhash J. et al., 2005k:47167**
Karwowski, Witold *see* **Inoue, Atsushi[2] et al., 2005a:47145**
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Schmüdgen, Konrad On well-behaved unbounded representations of $*$-algebras. (English summary) **2005a:47146**
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Lasiecka, Irena Optimal control problems and Riccati equations for systems with unbounded controls and partially analytic generators—applications to boundary and point control problems. **2005m:49038**
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— (*with* Randolph, Timothy; Schnaubelt, Roland) Regularization and frequency-domain stability of well-posed systems. (English summary) **2005m:93143**
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Ma, Li Xin (*with* Wang, Jun Qing) The Hankel operators in the locally convex space. (Chinese. English and Chinese summaries)
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van Neerven, J. M. A. M. Null controllability and the algebraic Riccati equation in Banach spaces. (English summary) **2005k:93021**
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Vũ Ngọc Phát Nonlinear H_∞ control in Hilbert spaces via Riccati operator equation. (English summary) **2005a:93062**
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— *see also* **Jacob, Birgit, 2005f:93086**

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47N99 None of the above, but in this section

Items with secondary classifications in 47N99

Kakihara, Yûichirô Operator theoretic review for information channels. (English summary) **2005f:94039**
Kempfle, Siegmar (*with* Schäfer, Ingo) Physical consistency of fractional ΨDO. (English summary) **2005b:47106**
Schäfer, Ingo *see* **Kempfle, Siegmar, 2005b:47106**

47Sxx Other (nonclassical) types of operator theory [see also 46Sxx]

47S10 Operator theory over fields other than R, C or the quaternions; non-Archimedean operator theory

Basu, Sudeshna (*with* Diagana, Toka; Ramaroson, F.) A p-adic version of Hilbert-Schmidt operators and applications. (English summary) **2005e:47153**
Diagana, Toka Towards a theory of some unbounded linear operators on p-adic Hilbert spaces and applications. (English summary) **2005k:47172**
— *see also* **Basu, Sudeshna et al., 2005e:47153**
Kiyosawa, Takemitsu Perturbations of p-adic linear operators. (English summary) **2005d:47119**
Ramaroson, F. *see* **Basu, Sudeshna et al., 2005e:47153**

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Fisher, Brian *see* **Pathak, H. K. et al., 2005f:47131**
Gorbachuk, M. L. (*with* Gorbachuk, V. I.) On the Cauchy problem for differential equations in a Banach space over the field of p-adic numbers. (Russian. Russian summary) **2005f:34170**
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Khrennikov, Andrei Yu. ★ Неархимедов анализ и его приложения. (Russian) [Non-Archimedean analysis and its applications] **2005c:46111**
Kozyrev, Sergei p-adic pseudodifferential operators and p-adic wavelets. (Russian. Russian summary) **2005f:47118**
Pathak, H. K. (*with* Khan, Mohammad S.; Tiwari, Rakesh; Fisher, Brian) Fixed-point theorem for Banach space over topological semifields and its application. (English summary) **2005f:47131**
Pérez-García, Cristina (*with* Vega, S.) Perturbation theory of p-adic Fredholm and semi-Fredholm operators. (English summary) **2005d:47026**
Tiwari, Rakesh *see* **Pathak, H. K. et al., 2005f:47131**
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47S20 Nonstandard operator theory [see also 03H05]

Kudryk, Taras *see* **Lyantse, V. È., 2005d:47120**
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Ploss, Hans *see* **Kellner, Jakob, 2005h:47079**

47S30 Constructive operator theory [see also 03F60]

Items with secondary classifications in 47S30

Allaire, Grégoire (*with* Jouve, François; Maillot, Hervé) Topology optimization for minimum stress design with the homogenization method. (English summary) **2005f:74068**
Jouve, François *see* **Allaire, Grégoire et al., 2005f:74068**
Maillot, Hervé *see* **Allaire, Grégoire et al., 2005f:74068**

47S40 Fuzzy operator theory [see also 03E72]

Bag, T. (*with* Samanta, Syamal Kumar) Fuzzy bounded linear operators. (English summary) **2005m:47149**
Das, N. R. (*with* Misra, R. K.) Bilinear maps on fuzzy normed linear spaces. (English summary) **2005f:47154**
Misra, R. K. *see* **Das, N. R., 2005f:47154**
Samanta, Syamal Kumar *see* **Bag, T., 2005m:47149**
Xiao, Jian Zhong (*with* Zhu, Xing Hua) Topological degree theory and fixed point theorems in fuzzy normed space. (English summary) **2005g:47146**
— (*with* Zhu, Xing Hua) Some basic theorems for linear operators between fuzzy normed spaces. (English and Chinese summaries) **2005g:47147**
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Agarwal, Ravi P. (*with* O'Regan, Donal; Lakshmikantham, V.) Fuzzy Volterra integral equations: a stacking theorem approach. (English summary) **2005d:45003**
— (*with* Khan, M. Firdosh; O'Regan, Donal; Salahuddin Ayouby) On generalized multivalued nonlinear variational-like inclusions with fuzzy mappings. (English summary)
Anastassiou, George A. Fuzzy wavelet type operators. (English summary) **2005e:26043**
Chang, Jung-Chan (*with* Chen, Hsinjung; Shyu, Shih-Min; Lian, Wei-Cheng) Fixed-point theorems in fuzzy real line. (English summary) **2005a:47107**
Chen, Hsinjung *see* **Chang, Jung-Chan et al., 2005a:47107**
Chen, Shui Li *see* **Huang, Zhao Xia**
Huang, Nan Jing (*with* Lan, Heng-You) A couple of nonlinear equations with fuzzy mappings in fuzzy normed spaces. (English summary) **2005m:47127**
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Lian, Wei-Cheng *see* **Chang, Jung-Chan et al., 2005a:47107**
Lin, Lai-Jiu (*with* Liou, Yi-Han) Equilibrium theorems of multimaps and fuzzy mappings (English summary) **2005f:47120**
Liou, Yi-Han *see* **Lin, Lai-Jiu, 2005f:47120**
N'Guérékata, Gaston M. ★ Topics in almost automorphy. **2005h:34153**
O'Regan, Donal *see* **Agarwal, Ravi P. et al., 2005d:45003**
Radu, Viorel Some suitable metrics on fuzzy metric spaces. (English summary)
Salahuddin Ayouby *see* **Agarwal, Ravi P. et al.**
Shyu, Shih-Min *see* **Chang, Jung-Chan et al., 2005a:47107**
Xiao, Jian Zhong (*with* Zhu, Xing Hua) The uniform boundedness principles for fuzzy normed spaces. (English summary) **2005b:46159**
Zhu, Xing Hua *see* **Xiao, Jian Zhong, 2005b:46159**

47S50 Operator theory in probabilistic metric linear spaces

Items with secondary classifications in 47S50

Chandola, V. B. *see* **Pant, B. D. et al.**
Chugh, Renu *see* **Sumitra, 2005b:47138**
Dimri, R. C. *see* **Pant, B. D. et al.**
Goleţ, Ioan On contractions in probabilistic metric spaces. (English and Serbo-Croatian summaries)
Hadžić, Olga (*with* Pap, Endre) New classes of probabilistic contractions and applications to random operators. (English summary) **2005b:47126**
— (*with* Pap, Endre) Fixed point theorems for single-valued and multi-valued mappings in probabilistic metric spaces. (English summary) **2005d:47095**
Jain, Shishir *see* **Singh, Bijendra**
Jebril, Iqbal Hamzh (*with* Noorani, Mohd. Salmi Md.) Contraction functions in probabilistic normed space. (English summary)
Ješić, Siniša N. A common fixed point on transversal probabilistic spaces. (English summary) **2005c:47085**
Miheţ, Dorel Fixed point theorems for multivalued contractions of Hicks type in probabilistic metric spaces. (English summary) **2005f:54060**
Noorani, Mohd. Salmi Md. *see* **Jebril, Iqbal Hamzh**
Pant, B. D. (*with* Dimri, R. C.; Chandola, V. B.) Some results on fixed points of probabilistic densifying mappings. (English summary)
Pap, Endre *see* **Hadžić, Olga, 2005b:47126** *and* **2005d:47095**
Radu, Viorel Equicontinuous iterates of t-norms and applications to random normed and fuzzy Menger spaces. (English summary) (*see* **2005d:00013**)
Singh, Bijendra (*with* Jain, Shishir) A fixed point theorem in Menger space through weak compatibility. (English summary)
Sumitra (*with* Chugh, Renu) A generalization of Banach contraction principle in Menger PM spaces. (English summary) **2005b:47138**
Xiao, Jian Zhong (*with* Zhu, Xing Hua) The uniform boundedness principles for fuzzy normed spaces. (English summary) **2005b:46159**
Zhu, Xing Hua *see* **Xiao, Jian Zhong, 2005b:46159**
Žikić-Došenović, Tatjana A multivalued generalization of Hick's C-contraction. (English summary)

49–XX Calculus of variations and optimal control; optimization [see also 34H05, 34K35, 65Kxx, 90Cxx, 93–XX]

49–01 Instructional exposition (textbooks, tutorial papers, etc.)

Burghes, David (*with* Graham, Alexander) ★ Control and optimal control theories with applications. **2005g:49001**
Cox, Steven J. (*with* Forman, Robin; Jones, Frank; Keyfitz, Barbara Lee; Morgan, Frank; Wolf, Michael[1]) ★ Six themes on variation. **2005m:49001**
— Aye, there's the rub. An inquiry into why a plucked string comes to rest. (*see* **2005m:49001**)
Forman, Robin *see* **Cox, Steven J. et al., 2005m:49001**
Graham, Alexander *see* **Burghes, David, 2005g:49001**
(Hardt, Robert) *see* **Cox, Steven J. et al., 2005m:49001**
Jones, Frank Calculus of variations: what does "variations" mean? (*see* **2005m:49001**)
— *see also* **Cox, Steven J. et al., 2005m:49001**
Kawasaki, Hidefumi ★ Kyokuchi mondai. (Japanese) [Extremal problems]
Keyfitz, Barbara Lee Hold that light! Modeling of traffic flow by differential equations. (*see* **2005m:49001**)
— *see also* **Cox, Steven J. et al., 2005m:49001**
Morgan, Frank *see* **Cox, Steven J. et al., 2005m:49001**
Wolf, Michael[1] *see* **Cox, Steven J. et al., 2005m:49001**

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Six themes on variation *see* **Cox, Steven J. et al., 2005m:49001**

Items with secondary classifications in 49–01

Caputo, Michael R. ★ Foundations of dynamic economic analysis. **2005j:91001**
Denkowski, Zdzisław (*with* Migórski, Stanisław; Papageorgiou, Nikolaos S.) ★ An introduction to nonlinear analysis: theory. **2005a:47089**
— (*with* Migórski, Stanisław; Papageorgiou, Nikolaos S.) ★ An introduction to nonlinear analysis: applications. **2005b:47108**
Forman, Robin How many equilibria are there? An introduction to Morse theory. (*see* **2005m:49001**)
Izmailov, Alekseĭ Feridovich (*with* Solodov, Mikhail) ★ Численные методы оптимизации. (Russian. English and Russian summaries) [Numerical optimizatiom methods] **2005f:90003**
Migórski, Stanisław *see* **Denkowski, Zdzisław et al., 2005a:47089** *and* **2005b:47108**
Morgan, Frank Proof of the double bubble conjecture. (*see* **2005m:49001**)
Papageorgiou, Nikolaos S. *see* **Denkowski, Zdzisław et al., 2005a:47089** *and* **2005b:47108**
Schumacher, J. M. Complementarity systems in optimization. (English summary) **2005c:90100**
(Silberberg, Eugene) *see* **Caputo, Michael R., 2005j:91001**
Solodov, Mikhail *see* **Izmailov, Alekseĭ Feridovich, 2005f:90003**
Wolf, Michael[1] Minimal surfaces, flat cone spheres and moduli spaces of staircases. (*see* **2005m:49001**)

49–02 Research exposition (monographs, survey articles)

Arnăutu, Viorel (*with* Neittaanmäki, Pekka) ★ Optimal control from theory to computer programs. **2005a:49001**
Boltyanskiĭ, Vladimir Grigor'evich Tent method, optimization and robustness. (English summary) **2005k:49001**
Boscain, Ugo (*with* Piccoli, Benedetto) ★ Optimal syntheses for control systems on 2-D manifolds. **2005m:49002**
Cannarsa, Piermarco (*with* Sinestrari, Carlo) ★ Semiconcave functions, Hamilton-Jacobi equations, and optimal control. **2005e:49001**
Chadli, Ouayl *see* **Yao, Jen Chih, (2005i:90003)**
Deĭneka, V. S. *see* **Sergienko, Ivan V., 2005j:49001**
Gao, David Yang Duality, complementarity, and polarity in nonsmooth/nonconvex dynamics. (English summary) **2005h:49001**
Henrot, Antoine (*with* Sokołowski, Jan) Nouvelles tendances en optimisation de forme. [New directions in shape optimization]
Jabri, Youssef ★ The mountain pass theorem. **2005k:49002**
Jahn, Johannes ★ Vector optimization. **2005c:49001**
Konnov, Igor V. Generalized monotone equilibrium problems and variational inequalities. (English summary) (*see* **2005i:90003**)
Kurdila, Andrew J. (*with* Zabarankin, Michael) ★ Convex functional analysis. **2005m:49003**
Lagnese, John E. (*with* Leugering, Günter) ★ Domain decomposition methods in optimal control of partial differential equations. **2005g:49002**
Leugering, Günter *see* **Lagnese, John E., 2005g:49002**
Nartov, B. K. ★ Методы траекторного управления. [Trajectory control methods] **2005h:49002**
Neittaanmäki, Pekka *see* **Arnăutu, Viorel, 2005a:49001**
Pedregal, Pablo On some basic aspects of the relationship between the calculus of variations and differential equations. (English summary) **2005m:49004**
Piccoli, Benedetto *see* **Boscain, Ugo, 2005m:49002**
Sergienko, Ivan V. (*with* Deĭneka, V. S.) ★ Optimal control of distributed systems with conjugation conditions. **2005j:49001**
Serovaĭskiĭ, S. Ya. ★ Counterexamples in optimal control theory. **2005k:49003**
Sinestrari, Carlo *see* **Cannarsa, Piermarco, 2005e:49001**
Sokołowski, Jan *see* **Henrot, Antoine**
Yao, Jen Chih (*with* Chadli, Ouayl) Pseudomonotone complementarity problems and variational inequalities. (English summary) (*see* **2005i:90003**)
Zabarankin, Michael *see* **Kurdila, Andrew J., 2005m:49003**

Items with secondary classifications in 49–02

Agrachev, Andrei A. (*with* Sachkov, Yu. L.) ★ Control theory from the geometric viewpoint. **2005b:93002**
Chen, Ping[5] (*with* Islam, Sardar M. N.) ★ Optimal control models in finance. **2005f:91002**
(Hadjisavvas, Nicolas) *see* **Handbook: Generalized convexity and generalized monotonicity, 2005i:90003**
Han, Weimin ★ A posteriori error analysis via duality theory. **2005k:65003**
Islam, Sardar M. N. *see* **Chen, Ping[5], 2005f:91002**
(Komlósi, Sándor) *see* **Handbook: Generalized convexity and generalized monotonicity, 2005i:90003**
Lin, Fang Hua (*with* Yang, Xiaoping) ★ Geometric measure theory—an introduction. **2005a:28001**
Litvinov, G. L. The Maslov dequantization, idempotent and tropical mathematics: a very brief introduction. (English summary)
Mel'nik, V. S. *see* **Zgurovskiĭ, M. Z., 2005e:93001**
Reichel, Wolfgang ★ Uniqueness theorems for variational problems by the method of transformation groups. **2005k:35072**
Sachkov, Yu. L. *see* **Agrachev, Andrei A., 2005b:93002**
(Schaible, Siegfried) *see* **Handbook: Generalized convexity and generalized monotonicity, 2005i:90003**
Tikhomirov, Vladimir Mikhaĭlovich Convex analysis and extremum conditions in the theory of extremal problems. (Russian. English and Ukrainian summaries) **2005e:49045**
Touzi, Nizar ★ Stochastic control problems, viscosity solutions and application to finance. **2005h:93001**
(Voronka, R. O.) *see* **Zgurovskiĭ, M. Z., 2005e:93001**
Yang, Xiaoping *see* **Lin, Fang Hua, 2005a:28001**
Zgurovskiĭ, M. Z. (*with* Mel'nik, V. S.) ★ Nonlinear analysis and control of physical processes and fields. **2005e:93001**

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Encyclopaedia of Mathematical Sciences *see* **Agrachev, Andrei A., 2005b:93002**
Handbook:
Generalized convexity and generalized monotonicity ★ Handbook of generalized convexity and generalized monotonicity. **2005i:90003**
Lecture Notes in Mathematics *see* **Reichel, Wolfgang, 2005k:35072**

49–03 Historical (must also be assigned at least one classification number from Section 01)

Boltyanskiĭ, Vladimir Grigor'evich Application of topology in optimization theory. (English summary)

Items with secondary classifications in 49–03

Assad, Arjang A. *see* **Gass, Saul I., 2005g:90003**
Fernández Cara, Enrique (*with* Zuazua, Enrique) On the history and perspectives of control theory. (English summary) **2005c:93004**
Gass, Saul I. (*with* Assad, Arjang A.) ★ An annotated timeline of operations research: an informal history. **2005g:90003**
(Gernet, N. N.) *see* **Vasina, S. N., (2005f:00008)**
Glazunov, Yu. T. History of the origin and development of variational methods. (Russian. English and Russian summaries) (*see* **2005f:00008**)
Grzymkowski, Radosław *see* **Klamka, Jerzy et al., (2005b:01052)**
(Kantorovich, Leonid Vital'evich) *see* **Kantorovich, V. L.**
Kantorovich, V. L. Some facts related to the papers by L. V. Kantorovich reproduced in this issue. (Russian)
Klamka, Jerzy (*with* Grzymkowski, Radosław; Świerniak, Andrzej) Applied mathematics in Gliwice. (Polish. Polish summary) (*see* **2005b:01052**)
Miranda, Mario Caccioppoli sets. (English summary) **2005b:01049**
Świerniak, Andrzej *see* **Klamka, Jerzy et al., (2005b:01052)**
Vasina, S. N. N. N. Gernet and her contribution to the calculus of variations. (Russian. Russian summary) (*see* **2005f:00008**)
Zuazua, Enrique *see* **Fernández Cara, Enrique, 2005c:93004**

49–04 Explicit machine computation and programs (not the theory of computation or programming)

Belyshev, D. V. (*with* Gurman, V. I.) A program package for multimethod intelligent procedures for optimal control. (Russian. Russian summary)
Gurman, V. I. *see* **Belyshev, D. V.**
Stefani, Gianna (*with* Zezza, PierLuigi) Time optimality of a bang-bang trajectory with Maple. (English summary) (*see* **2005b:93007**)
Zezza, PierLuigi *see* **Stefani, Gianna, (2005b:93007)**

Items with secondary classifications in 49–04

Arnăutu, Viorel (*with* Neittaanmäki, Pekka) ★ Optimal control from theory to computer programs. **2005a:49001**
Bertolazzi, Enrico (*with* Biral, F.; Da Lio, M.) Symbolic-numeric indirect method for solving optimal control problems for large multibody systems. (English summary)
Biral, F. *see* **Bertolazzi, Enrico et al.**
Da Lio, M. *see* **Bertolazzi, Enrico et al.**
Neittaanmäki, Pekka *see* **Arnăutu, Viorel, 2005a:49001**

49–06 Proceedings, conferences, collections, etc.

(De Giorgi, E.) *see* **Calculus of variations: topics from the mathematical heritage of E. De Giorgi, 2005i:49001**
(Malisoff, Michael) *see* **Optimal control, stabilization and nonsmooth analysis, 2005b:49001**
Mordukhovich, Boris S. (*with* Rockafellar, R. Tyrrell) Preface [Variational analysis and its applications].

(Pallara, Diego) *see* **Calculus of variations: topics from the mathematical heritage of E. De Giorgi, 2005i:49001**
(de Queiroz, Marcio Santos) *see* **Optimal control, stabilization and nonsmooth analysis, 2005b:49001**
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49J15 Optimal control problems involving ordinary differential equations

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49J20 Optimal control problems involving partial differential equations

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49J22 Optimal control problems involving integral equations

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49J24 Optimal control problems involving differential inclusions [see also 34A60]

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49J35 Minimax problems

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49J40 Variational methods including variational inequalities [see also 47J20]

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49J55 Problems involving randomness [see also 93E20]

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49J99 None of the above, but in this section

Ambrozie, Călin Maximum entropy and moment problems. (English summary) **2005d:49035**

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Zaslavski, Alexander J. The turnpike property for approximate solutions of variational problems without convexity. (English summary) **2005c:91100**

49Kxx Necessary conditions and sufficient conditions for optimality

49K05 Free problems in one independent variable

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Husain, Iqbal (*with* Jabeen, Z.) On variational problems involving higher order derivatives. (English summary) **2005h:49049**
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Arroyo, Josu (*with* Garay, Oscar J.; Mencía, J. J.) Extremals of curvature energy actions on spherical closed curves. (English summary) **2005d:58023**
Bak, S. N. The constrained minimization method in the problem of the oscillations of a chain of nonlinear oscillators. (Russian. English, Russian and Ukrainian summaries) **2005h:37137**
Dem′yanov, V. F. An old problem and new tools. (English summary) **2005m:49027**
Dmitruk, A. V. Nonnegativity criterion for a degenerate quadratic form with two-dimensional control. **2005d:49051**
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Ikuta, Koya (*with* Sakaki, Makoto) A note on the optimality of Riemannian cubic polynomials. (English summary) **2005d:58024**
Khritonenko, N. V. (*with* Yatsenko, Yu. P.) Structure of optimal trajectories in a nonlinear dynamic model with endogenous delay. **2005h:49082**
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49K10 Free problems in two or more independent variables

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Bergounioux, Maïtine (*with* Lenhart, Suzanne) Optimal control of bilateral obstacle problems. (English summary) **2005g:49034**
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Cianchi, Andrea (*with* Fusco, Nicola) Strict monotonicity of functionals under Steiner symmetrization. **2005k:49057**
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Gazzola, Filippo *see* **Crasta, Graziano et al.**, 2005m:49033
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Kielhöfer, Hansjörg Corrigenda: "Critical points of nonconvex and noncoercive functionals" [Calc. Var. Partial Differential Equations **16** (2003), no. 3, 243–272; MR2001703 (2005g:49005)]. **2005k:49058**
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Akulenko, L. D. (*with* Koshelev, A. P.) Time-optimal steering of a dynamic object to a given position under equality of initial and final velocities. (Russian. Russian summary) **2005a:49038**
Aleksandrov, Vladimir Mikhaĭlovich Time-optimal control of a class of nonlinear systems. (Russian. English and Russian summaries) **2005k:49059**
Aleksandrov, Vladimir Vasil'evich (*with* Gutiérrez Arias, J. E. Moisés) About the maximin testing strategy. (English summary) **2005i:49020**
Antipina, N. V. (*with* Dykhta, V. A.) Sufficient conditions for the optimality of impulse control problems. (Russian. Russian summary) **2005g:49036**
Arutyunov, Aram V. (*with* Vereshchagina, Yu. S.) On necessary second-order conditions in optimal control problems. (Russian. Russian summary) **2005h:49055**
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— (*with* Smirnov, A. I.) The Pontryagin maximum principle for the problem of the optimal crossing of a given domain. (Russian) **2005m:49034**
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Bergounioux, Maïtine (*with* Kunisch, Karl) On the structure of Lagrange multipliers for state-constrained optimal control problems. (English summary) **2005a:49040**
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Dem'yanov, V. F. (*with* Giannessi, Franco) Variational problems with constraints involving higher-order derivatives. (English summary) **2005a:49041**
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Kawski, Matthias High-order maximal principles. **2005a:49042**
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49K35 Minimax problems

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49Lxx Hamilton-Jacobi theories, including dynamic programming

49L20 Dynamic programming method

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49L25 Viscosity solutions

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49M20 Methods of relaxation type

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49M27 Decomposition methods

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49M99 None of the above, but in this section

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49Nxx Miscellaneous topics

49N05 Linear optimal control problems [see also 93C05]

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49N20 Periodic optimization

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49N35 Optimal feedback synthesis [see also 93B52]

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49N45 Inverse problems

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49N60 Regularity of solutions

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49Q99 None of the above, but in this section

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49R50 Variational methods for eigenvalues of operators [see also 47A75]

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49S05 Variational principles of physics

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Ferrario, Davide L. (*with* Terracini, Susanna) On the existence of collisionless equivariant minimizers for the classical n-body problem. (English summary) **2005b:70010**
Fortunato, Donato *see* **Benci, Vieri, 2005g:78004**
Gao, David Yang Duality, complementarity, and polarity in nonsmooth/nonconvex dynamics. (English summary) **2005h:49001**
Kobayashi, Marcelo H. *see* **Terra, Gláucio, 2005d:37138**
Koiso, Miyuki (*with* Palmer, Bennett) On a variational problem for soap films with gravity and partially free boundary. (English summary) **2005j:49035**
Kurth, Michael On the existence of infinitely many modes of a nonlocal nonlinear Schrödinger equation related to dispersion-managed solitons. (English summary) **2005h:34105**
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Phillips, Daniel (*with* Shin, Eunjee) On the analysis of a non-isothermal model for superconductivity. (English summary) **2005f:82140**
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Zhao, Zheng[1] *see* **Tian, Guihua, 2005f:58011**
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51–XX Geometry {For algebraic geometry, see 14–XX.}

51–01 Instructional exposition (textbooks, tutorial papers, etc.)

(Archimedes) *see* **Lévy-Leblond, Jean-Marc**, 2005d:51001
(Euclid) *see* **Lévy-Leblond, Jean-Marc**, 2005d:51001
Kendall, M. G. ★ A course in the geometry of n dimensions. **2005b:51001**
Lévy-Leblond, Jean-Marc N-dimensional variations on themes of Pythagoras, Euclid, and Archimedes. **2005d:51001**
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Bradley, Christopher J. ★ Challenges in geometry.
Godefroy, Gilles ★ The adventure of numbers. **2005i:11001**
(Hedrick, E. R.) *see* **Klein, Felix**, 2005c:01029
(Kay, Leslie) *see* **Godefroy, Gilles**, 2005i:11001
Klein, Felix ★ Elementary mathematics from an advanced standpoint. **2005c:01029**
Morita, Shigeyuki *see* **Ueno, Kenji et al.**, 2005e:00003
(Noble, C. A.) *see* **Klein, Felix**, 2005c:01029
Shiga, Koji *see* **Ueno, Kenji et al.**, 2005e:00003
(Tyler, Eiko) *see* **Ueno, Kenji et al.**, 2005e:00003
Ueno, Kenji (*with* Shiga, Koji; Morita, Shigeyuki) ★ A mathematical gift. II. **2005e:00003**

51–02 Research exposition (monographs, survey articles)

Venema, Gerard A. ★ The foundations of geometry.

Items with secondary classifications in 51–02

(Faugeras, Olivier) *see* **Hartley, Richard**, 2005b:68251
(Hallett, Michael F.) *see* **David Hilbert's lectures on the foundations of geometry, 1891–1902**, 2005i:01009
Hartley, Richard (*with* Zisserman, Andrew) ★ Multiple view geometry in computer vision. **2005b:68251**
(Hilbert, David[1]) *see* **David Hilbert's lectures on the foundations of geometry, 1891–1902**, 2005i:01009
(Kanerva, Pentti) *see* **Widdows, Dominic**
Košecká, Jana *see* **Ma, Yi[2] et al.**, 2005a:68198
Ma, Yi[2] (*with* Soatto, Stefano; Košecká, Jana; Sastry, S. Shankar) ★ An invitation to 3-D vision. **2005a:68198**
(Majer, Ulrich) *see* **David Hilbert's lectures on the foundations of geometry, 1891–1902**, 2005i:01009
Sastry, S. Shankar *see* **Ma, Yi[2] et al.**, 2005a:68198
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Widdows, Dominic ★ Geometry and meaning.
Zisserman, Andrew *see* **Hartley, Richard**, 2005b:68251

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David Hilbert's lectures on the foundations of geometry, 1891–1902 ★ David Hilbert's lectures on the foundations of geometry, 1891 1902. **2005i:01009**

51–03 Historical (must also be assigned at least one classification number from Section 01)

(Bolyai, János) *see* **Gray, Jeremy J.**, 2005g:51001
Boyer, Carl B. ★ History of analytic geometry.
Cerroni, Cinzia Non-Desarguian geometries and the foundations of geometry from David Hilbert to Ruth Moufang. (English and Italian summaries) **2005b:51002**
Gray, Jeremy J. ★ János Bolyai, non-Euclidean geometry, and the nature of space. **2005g:51001**
(Halsted, George Bruce) *see* **Gray, Jeremy J.**, 2005g:51001
Mishra, Vinod (*with* Singh, Shyam Lal) Similarity of plane figures and geometric & group theoretic study of cyclic quadrilaterals of first kind. (English summary)
Ruesga Ramos, Pilar *see* **Sigarreta Almira, C. José María**, 2005e:51001
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Struve, Rolf *see* **Struve, Horst**, 2005c:51001
(Weiss, Benjamin Darius) *see* **Gray, Jeremy J.**, 2005g:51001

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Abgrall, Philippe ★ Le développement de la géométrie aux IX[e]–XI[e] siècles—Abū Sahl al-Qūhī. (French) [The development of geometry in the ninth through the eleventh centuries—Abū Sahl al-Qūhī] **2005i:01003**
Apostol, Tom M. (*with* Mnatsakanian, Mamikon A.) A fresh look at the method of Archimedes. **2005f:26002**
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(Comte, Auguste) *see* **Cicenia, Salvatore**, 2005m:01017
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Gandon, Sébastien Russell et l'*Universal algebra* de Whitehead: la géométrie projective entre ordre et incidence (1898–1903). (English and French summaries) [Russell and Whitehead's *Universal algebra*: projective geometry between order and incidence (1898–1903)] **2005k:01020**
Ghione, Franco *see* **Catastini, Laura**
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(Halckes, Paul) *see* **Kühl, Jürgen**
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Houzel, Christian *see* **Rashed, Roshdi**, 2005m:01012
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(ibn Mūsā, Na'īm) *see* **Rashed, Roshdi**, 2005m:01012
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(Pieper-Seier, Irene) *see* **Radtke, Stefanie**, 2005a:01020
Radtke, Stefanie Die erste Mathematikprofessorin Deutschlands. Promotionsvorhaben zu Ruth Moufang (1905–1977). [The first female professor of mathematics in Germany. Dissertation project on Ruth Moufang (1905–1977)] **2005a:01020**
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Reventós i Tarrida, Agustí A new world created from nothing, a world in which one can square the circle! (Catalan. Catalan summary) **2005m:01009**
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(Stedall, Jacqueline A.) *see* **Wallis, John**, 2005e:01028
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— *see also* **Maierù, Luigi**, 2005f:01006
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Zambrana Castañeda, Guillermo Is implicit variation a variation? Euclid through the eyes of Apollonius of Perga. (Spanish)

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Biography:
Moufang, Ruth *see* **Radtke, Stefanie**, 2005a:01020

51–06 Proceedings, conferences, collections, etc.

Blokhuis, Aart (*with* Hirschfeld, J. W. P.; Jungnickel, Dieter; Thas, Joseph A.) Preface: Finite Geometries, First Irsee Conference.
Hirschfeld, J. W. P. *see* **Blokhuis, Aart et al.**
Jungnickel, Dieter *see* **Blokhuis, Aart et al.**
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Items with secondary classifications in 51–06

(Winkler, Franz) *see* **Automated deduction in geometry**, 2005d:68006

Items listed otherwise than by author

Automated deduction in geometry ★ Automated deduction in geometry. **2005d:68006**
Hagenberg Castle ★ Automated deduction in geometry. **2005d:68006**
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51Axx Linear incidence geometry

51A05 General theory and projective geometries

Bertram, Wolfgang Generalized projective geometries. (English summary) **2005m:51001**
— From linear algebra via affine algebra to projective algebra. (English summary) **2005b:51003**
Dhakal, Guru Prasad Semimorphisms of geometric spaces and morphisms induced on projective spaces. (English summary) **2005j:51001**
Freitag, Reinhard (*with* Kreuzer, Alexander) Linear spaces with many projective planes. (English summary) **2005b:51004**
Havlicek, Hans (*with* Pambuccian, Victor) On the axiomatics of projective and affine geometry in terms of line intersection. (English summary) **2005e:51002**
Kreuzer, Alexander *see* **Freitag, Reinhard**, **2005b:51004**
Kurtuluş, Aytaç (*with* Olgun, Sükrü) On finite $\{s-1, s\}$-semiaffine linear spaces. (English summary) **2005e:51003**
Olgun, Sükrü *see* **Kurtuluş, Aytaç**, **2005e:51003**
Pambuccian, Victor *see* **Havlicek, Hans**, **2005e:51002**

Items with secondary classifications in 51A05

Gau, Hwa-Long (*with* Wu, Pei Yuan) Numerical range circumscribed by two polygons. (English summary) **2005d:15029**
Kleinfeld, Erwin (*with* Ton-That, Tuong) An analytic proof of the theorems of Pappus and Desargues. (English summary) **2005h:51002**
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Metsch, Klaus Blocking subspaces by lines in $\mathrm{PG}(n, q)$. (English summary) **2005f:51009**
Steinke, Günter F. *see* **Löwen, Rainer et al.**, **2005b:51028**
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Wu, Pei Yuan *see* **Gau, Hwa-Long**, **2005d:15029**

51A10 Homomorphism, automorphism and dualities

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Gramlich, Ralf (*with* van Maldeghem, Hendrik) Epimorphisms of generalized polygons. II. Some existence and non-existence results. **2005c:51003**
Immervoll, Stefan The homeomorphism type of unital-like submanifolds in smooth projective planes. (English summary) **2005f:51014**
van Maldeghem, Hendrik *see* **Gramlich, Ralf**, **2005c:51003**
Stroppel, Markus Polar unitals in compact eight-dimensional planes. (English summary) **2005i:51010**
— Corrigenda to: "Polarities of symplectic quadrangles" [Bull. Belg. Math. Soc. Simon Stevin **10** (2003), no. 3, 437–449; MR2017454 (2004i:51004)]. **2005h:51006**
— Polarities of compact eight-dimensional planes. (English summary) **2005k:51019**

51A15 Structures with parallelism

Items with secondary classifications in 51A15

Havlicek, Hans (*with* Pambuccian, Victor) On the axiomatics of projective and affine geometry in terms of line intersection. (English summary) **2005e:51002**
Pambuccian, Victor *see* **Havlicek, Hans**, **2005e:51002**
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Rubio Ruiz, Rafael María *see* **Ríder Moyano, Alfonso**, **2005f:03017**

51A20 Configuration theorems

Łapiński, Mariusz (*with* Prażmowski, Krzysztof) On set-theoretic and cyclic representation of the structure of barycentres. (English summary) **2005f:51001**
Pralle, Harm Baer cone intersections. (English summary) **2005m:51002**
Prażmowski, Krzysztof *see* **Łapiński, Mariusz**, **2005f:51001**

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Below, Alexander (*with* Krummeck, Vanessa; Richter-Gebert, Jürgen) Complex matroids phirotopes and their realizations in rank 2. (English summary) **2005d:05041**
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Boben, M. *see* **Pisanski, Tomaž et al.**, **2005c:05173**
Dolgachev, Igor V. Abstract configurations in algebraic geometry. (English summary) **2005k:14091**
Graovac, Ante *see* **Pisanski, Tomaž et al.**, **2005c:05173**
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Marušič, Dragan *see* **Pisanski, Tomaž et al.**, **2005c:05173**
Orbanić, A. *see* **Pisanski, Tomaž et al.**, **2005c:05173**
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Richter-Gebert, Jürgen *see* **Below, Alexander et al.**, **2005d:05041**

51A25 Algebraization [see also 12Kxx, 20N05]

Grari, A. A necessary and sufficient condition so that two planar ternary rings induce isomorphic projective planes. (English summary) **2005i:51001**
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Mnukhin, V. B. (*with* Siemons, Johannes) On the Livingstone-Wagner theorem. (English summary) **2005b:20006**
Siemons, Johannes *see* **Mnukhin, V. B.**, **2005b:20006**
Volenec, Vladimir (*with* Kolar-Begović, Zdenka) Affine regular pentagons in GS-quasigroups. (English summary) **2005k:20177**

51A30 Desarguesian and Pappian geometries

Grochowska-Prażmowska, Małgorzata A proof of the projective Desargues axiom in the Desarguesian affine plane. (English summary)
Khubezhty, I. A. On the Desargues geometrization of the characteristic of a skew field. (Russian. Russian summary) **2005b:51005**
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Items with secondary classifications in 51A30

Drake, David A. (*with* Keating, Kevin) Ovals and hyperovals in Desarguesian nets. (English summary) **2005b:51021**
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51A35 Non-Desarguesian affine and projective planes

Cordero, Minerva (*with* Figueroa, Raúl) On the semifield planes of order 5^4 and dimension 2 over the kernel. (English summary) **2005i:51002**
Figueroa, Raúl *see* **Cordero, Minerva**, **2005i:51002**

Items with secondary classifications in 51A35

Cerroni, Cinzia Non-Desarguian geometries and the foundations of geometry from David Hilbert to Ruth Moufang. (English and Italian summaries) **2005b:51002**
Ghinelli-Smit, Dina (*with* Jungnickel, Dieter) On finite projective planes in Lenz-Barlotti class at least I.3. (English summary) **2005a:51011**
Jakóbowski, Jan Theorems on products of central collineations with distinct centers or axes applied to the Benz planes. (English summary) **2005g:51002**
Jungnickel, Dieter *see* **Ghinelli-Smit, Dina**, **2005a:51011**

51A40 Translation planes and spreads

Ho, Chat Yin Eigenspaces of linear collineations. **2005k:51001**
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Bader, Laura (*with* O'Keefe, Christine M.; Penttila, Tim) Some remarks on flocks. (English summary) **2005b:51008**
Baker, Ronald D. (*with* Ebert, Gary L.; Penttila, Tim) Hyperbolic fibrations and q-clans. (English summary) **2005m:51009**
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— (*with* Johnson, Norman Lloyd[1]) The classification of spreads in $\mathrm{PG}(3, q)$ admitting linear groups of order $q(q+1)$. II. Even order. (English summary) **2005f:51012**
— (*with* Johnson, Norman Lloyd[1]) Nuclear fusion in finite semifield planes. (English summary) **2005g:51021**
— (*with* Johnson, Norman Lloyd[1]) Multiple nests. (English summary) **2005k:51014**
— *see also* **Biliotti, Mauro et al.**, **2005k:51013**
Johnson, Norman Lloyd[1] Beutelspacher's parallelism construction. (English summary) **2005e:51013**
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— Dual deficiency one transitive partial parallelisms. (English summary) **2005j:51006**
— The non-solvable triangle transitive planes. (English summary) **2005k:51015**
— *see also* **Jha, Vikram**, **2005b:51024**; **2005f:51012**; **2005g:51021**; **2005k:51014** *and* **Biliotti, Mauro et al.**, **2005k:51013**
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— Polarities of compact eight-dimensional planes. (English summary) **2005k:51019**
Thas, Joseph A. *see* **Luyckx, D., 2005c:51016**
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51A45 Incidence structures imbeddable into projective geometries

Cooperstein, Bruce N. Generation of embeddable incidence geometries: a survey. **2005d:51003**
— (*with* Thas, Joseph A.; van Maldeghem, Hendrik) Hermitian Veroneseans over finite fields. (English summary) **2005b:51006**
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51A50 Polar geometry, symplectic spaces, orthogonal spaces

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51Bxx Nonlinear incidence geometry

51B05 General theory

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Jakóbowski, Jan Theorems on products of central collineations with distinct centers or axes applied to the Benz planes. (English summary) **2005g:51002**
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51B10 Möbius geometries

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Jakóbowski, Jan Theorems on products of central collineations with distinct centers or axes applied to the Benz planes. (English summary) **2005g:51002**

51B15 Laguerre geometries

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Polster, Burkard (*with* Steinke, Günter F.) On the Kleinewillinghöfer types of flat Laguerre planes. (English summary) **2005f:51019**
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51B20 Minkowski geometries

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51B25 Lie geometries

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51C05 Ring geometry (Hjelmslev, Barbilian, etc.)

51Dxx Geometric closure systems

51D20 Combinatorial geometries [see also 05B25, 05B35]

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51D25 Lattices of subspaces [see also 05B35]

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51D99 None of the above, but in this section

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51Exx Finite geometry and special incidence structures

51E05 General block designs [see also 05B05]

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Cuypers, Hans A note on the tight spherical 7-design in $\mathbb{R}^{23}$ and 5-design in $\mathbb{R}^7$. (English summary) **2005k:05058**

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51E10 Steiner systems

Items with secondary classifications in 51E10

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51E12 Generalized quadrangles, generalized polygons

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De Beule, Jan (*with* Metsch, Klaus) The smallest point sets that meet all generators of $H(2n, q^2)$. (English summary) **2005m:51004**

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— Automorphisms of F_4 quadrangles. (English summary) **2005b:51009**

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— A note on the tight spherical 7-design in $\mathbb{R}^{23}$ and 5-design in $\mathbb{R}^7$. (English summary) **2005k:05058**

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Payne, Stanley E. *see* **Brown, Matthew R. et al., 2005c:51011**
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Tent, Katrin Half-Moufang generalized hexagons. (English summary) **2005e:20043**
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51E14 Finite partial geometries (general), nets, partial spreads

Ball, Simeon (*with* Bamberg, John; Lavrauw, Michel; Penttila, Tim) Symplectic spreads. (English summary) **2005c:51005**
Bamberg, John *see* **Ball, Simeon et al., 2005c:51005**
De Clerck, F. (*with* Delanote, M.) On $(0,\alpha)$-geometries and dual semipartial geometries fully embedded in an affine space. (English summary) **2005d:51009**
— (*with* De Winter, S.; Thas, Joseph A.) A characterization of the semipartial geometries $T_2^*(\mathscr{U})$ and $T_2^*(\mathscr{B})$. (English summary) **2005a:51005**
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Lavrauw, Michel *see* **Ball, Simeon et al., 2005c:51005**
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Scafati Tallini, Maria *see* **Rajola, Sandro, 2005a:51008**
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Cardinali, Ilaria (*with* Trombetti, Rocco) On Hermitian spreads. (English summary) **2005d:51017**
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Luyckx, D. (*with* Thas, Joseph A.) Semipartial geometries, arising from locally Hermitian 1-systems of $W_5(q)$. (English summary) **2005d:51004**
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Thas, Joseph A. *see* **Luyckx, D., 2005d:51004** *and* **De Winter, S., 2005h:51009**
Tonchev, Vladimir D. On generalized Hadamard matrices of minimum rank. (English summary) **2005k:05054**
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51E15 Affine and projective planes

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Baker, Ronald D. (*with* Culbert, C.; Ebert, Gary L.; Mellinger, Keith E.) Odd order flag-transitive affine planes of dimension three over their kernel. (English summary) **2005a:51009**
Ballico, Edoardo Chains of lines and intersections of quadrics in PG(n,q). (English and Italian summaries) **2005g:51008**
Basile, Alessandro (*with* Brutti, Paolo) Ruled cubics in PG$(5,q)$ and fibrations of finite generalized André planes of order q^3. (Italian. Italian summary) **2005b:51013**
— (*with* Brutti, Paolo) Regular switching sets and ruled cubics of associated $\mathscr{P}G(5,q)$ translation planes. (Italian. English summary) **2005c:51006**
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— (*with* Rinaldi, Gloria) On two-transitive parabolic ovals. (English summary) **2005m:51007**
— *see also* **Aguglia, A., 2005g:51007**
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Cardinali, Ilaria (*with* Pasini, Antonio) A characterization of truncated D_n-buildings as flag-transitive PG.PG*-geometries. (English summary) **2005b:51014**
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51E21 Blocking sets, ovals, k-arcs

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Metsch, Klaus Small point sets that meet all generators of $W(2n+1, q)$. (English summary) **2005b:51022**
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51E25 Other finite nonlinear geometries

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51E26 Other finite linear geometries

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51E30 Other finite incidence structures [see also 05B30]

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51Fxx Metric geometry

51F05 Absolute planes

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51F10 Absolute spaces

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51F15 Reflection groups, reflection geometries [see also 20H10, 20H15; for Coxeter groups, see 20F55]

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— Hyperbolic geometry in terms of point-reflections or of line-orthogonality. (English summary) **2005f:51021**
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51F20 Congruence and orthogonality [see also 20H05]

Items with secondary classifications in 51F20

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51F25 Orthogonal and unitary groups [see also 20H05]

Items with secondary classifications in 51F25

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51G05 Ordered geometries (ordered incidence structures, etc.)

51Hxx Topological geometry

51H05 General theory

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51H10 Topological linear incidence structures

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— (*with* Löwen, Rainer) Proof of the oval conjecture for proper planar partition surfaces. (English summary) **2005k:51018**
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— *see also* **Betten, Dieter, 2005k:51018**
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51H15 Topological nonlinear incidence structures

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— *see also* **Polster, Burkard, 2005f:51019**

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51H20 Topological geometries on manifolds [see also 57–XX]

Items with secondary classifications in 51H20

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51H30 Geometries with algebraic manifold structure [see also 14–XX]

Items with secondary classifications in 51H30

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51H99 None of the above, but in this section

Items with secondary classifications in 51H99

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51Jxx Incidence groups

51Kxx Distance geometry

51K05 General theory

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Brancheva, Maria Estimations and asymptotic formulae related with some simplest Diophantine figures. **2005a:11148**
Chu, Hahng Yun (*with* Lee, Keonhee; Park, Chun Gil) On the Aleksandrov problem in linear n-normed spaces. (English summary) **2005g:46022**
Jung, Soon-Mo (*with* Lee, Ki-Suk) Distance-preserving mappings on restricted domains. (English summary) **2005c:47095**
— (*with* Rassias, Themistocles M.) On distance-preserving mappings. (English summary) **2005b:46031**
Lee, Keonhee *see* **Chu, Hahng Yun et al., 2005g:46022**
Lee, Ki-Suk *see* **Jung, Soon-Mo, 2005c:47095**
Li, Hong Bo Automated geometric theorem proving, Clifford bracket algebra and Clifford expansions. (English summary) **2005c:15044**
Martinón, Antonio Distance to the intersection of two sets. (English summary) **2005g:54054**
Miličić, Pavle M. On duality mapping and canonical isometry of a normed space. (English summary) **2005i:46024**
Miller, W. E. Erratum: "Revisiting the geometry of a ternary diagram with the half-taxi metric" [Math. Geol. **34** (2002), no. 3, 275–290; MR1953972 (2003m:86034)].
Papadopoulos, Athanase ★ Metric spaces, convexity and nonpositive curvature. **2005k:53042**
Park, Chun Gil *see* **Chu, Hahng Yun et al., 2005g:46022**
Rassias, Themistocles M. *see* **Jung, Soon-Mo, 2005b:46031**
So, Shing *see* **Bkdadi, Mohamad et al., 2005f:51026**
Xiang, Shuhuang On the Aleksandrov-Rassias problem for isometric mappings. (English summary) **2005b:46038**
— On the Aleksandrov-Rassias problem and the geometric invariance in Hilbert spaces. (English summary) **2005f:46029**
Yang, Lu[1] Distance coordinates used in geometric constraint solving. (English summary) **2005e:68217**
Yang, Shi Guo Improvement of an n-dimensional Euler inequality. (Chinese. English and Chinese summaries)
Yousef, Mahmoud *see* **Bkdadi, Mohamad et al., 2005f:51026**

51K10 Synthetic differential geometry

Items with secondary classifications in 51K10

Nishimura, Hirokazu Corrigenda to: "Synthetic differential geometry of jet bundles" [Bull. Belg. Math. Soc. Simon Stevin **8** (2001), no. 4, 639–650; MR1875384 (2002k:58007)]. **2005a:58008**
— Higher-order preconnections in synthetic differential geometry of jet bundles. (English summary) **2005m:58009**
Yang, Shi Guo Discussion on an antithetic formula and two new antithetic formulas for a simplex. (Chinese. English and Chinese summaries)

51K99 None of the above, but in this section

Items with secondary classifications in 51K99

Karlsson, Anders[2] (*with* Noskov, Gen. A.) Some groups having only elementary actions on metric spaces with hyperbolic boundaries. (English summary) **2005d:20070**
Noskov, Gen. A. *see* **Karlsson, Anders[2], 2005d:20070**

51Lxx Geometric order structures [see also 53C75]

51L15 n-vertex theorems via direct methods

Makeev, V. V. On quadrangles inscribed in a closed curve and the vertices of the curve. (Russian. English and Russian summaries) **2005a:51021**

Items with secondary classifications in 51L15

Özdemir, Mehmet *see* **Yüksel, Nural, 2005g:53006**
Thorbergsson, Gudlaugur (*with* Umehara, Masaaki) A global theory of flexes of periodic functions. (English summary) **2005h:53015**
Umehara, Masaaki *see* **Thorbergsson, Gudlaugur, 2005h:53015**
Uribe-Vargas, Ricardo Four-vertex theorems, Sturm theory and Lagrangian singularities. (English summary) **2005m:53145**
Yüksel, Nural (*with* Özdemir, Mehmet) The six-vertex theorem for closed planar curve which bounds and immersed surface. (English summary) **2005g:53006**

51Mxx Real and complex geometry

51M04 Elementary problems in Euclidean geometries

Abu-Saymeh, Sadi (*with* Hajja, Mowaffaq) Triangle centers with linear intercepts and linear subangles. (English summary)
Anghel, Nicolae Minimal chords in angular regions. (English summary)
Apostol, Tom M. (*with* Mnatsakanian, Mamikon A.) Figures circumscribing circles. **2005g:51025**
Ayme, Jean-Louis A purely synthetic proof of the Droz-Farny line theorem. (English summary)
Bilir, S. *see* **Omur, N.**
Bogataya, S. I. (*with* Bogatyĭ, Semen A.) Power means. New description of a barycenter and Fermat-Torricelli points. (Russian. Russian summary)
Bogatyĭ, Semen A. *see* **Bogataya, S. I.**
Buba-Brzozowa, Małgorzata (*with* Witczyński, Krzysztof) Some properties of orthocentric simplexes. **2005a:51022**
— Analogues of the nine-point circle for orthocentric n-simplexes. (English summary) **2005k:51021**
Čerin, Zvonko The vertex-midpoint-centroid triangles. (English summary)
Danneels, Eric A simple construction of the congruent isoscelizers point. (English summary)
— The intouch triangle and the OI-line. (English summary)
— (*with* Dergiades, Nikolaos) A theorem on orthology centers. (English summary)
De Bruyn, Bart On a problem regarding the n-sectors of a triangle. (English summary)
Dergiades, Nikolaos *see* **Danneels, Eric**
Emelyanov, Lev On the intercepts of the OI-line. (English summary)
Górska, Renata A. *see* **Koźniewski, Edwin**
Hajja, Mowaffaq An elementary proof of "the most elementary theorem" of Euclidean geometry. (English summary)
— (*with* Walker, Peter L.) The inspherical Gergonne center of a tetrahedron. (English summary)
— *see also* **Abu-Saymeh, Sadi**
Hraskó, András Ponzag theorems.
Ismailescu, Dan (*with* Radoičić, Radoš) A dense planar point set from iterated line intersections. (English summary) **2005b:51030**
Karliğa, Baki Edge matrix of hyperbolic simplices. (English summary) **2005h:51013**
Kolar-Šuper, Ružica (*with* Volenec, Vladimir) Stammler's circles, Stammler's triangle and Morley's triangle of a given triangle. (English summary)
Koźniewski, Edwin (*with* Górska, Renata A.) Rectification note to the paper: "Gergonne and Nagel points for simplices in the n-dimensional space" [J. Geom. Graph. **4** (2000), no. 2, 119–127; MR1829537]. (English summary)
van Lamoen, Floor Inscribed squares. (English summary)
Malakhovskiĭ, N. V. Families of Poncelet triangles. (Russian. English and Russian summaries)
Mnatsakanian, Mamikon A. *see* **Apostol, Tom M., 2005g:51025**
Omur, N. (*with* Bilir, S.) Two operations in triangle plane. (English summary)
Oxman, Victor On the existence of triangles with given lengths of one side and two adjacent angle bisectors. (English summary)
— On the existence of triangles with given lengths of one side, the opposite and one adjacent angle bisectors. (English summary)
Pamfilos, Paris On some actions of D_3 on a triangle. (English summary)
Radić, Mirko Some relations concerning triangles and bicentric quadrilaterals in connection with Poncelet's closure theorem when conics are circles not one inside of the other.
Radoičić, Radoš *see* **Ismailescu, Dan, 2005b:51030**
Sastry, K. R. S. Triangles with special isotomic conjugate pairs. (English summary)
Schröcker, Hans-Peter The manifold of planes that intersect four straight lines in points of a circle. (English summary)
Sliepčević, Ana Eine neue Schmetterlings-kurve. (English summary) [A new butterfly curve]
Stoyanov, Emil Ya. A parallel trajectory in a quadrilateral. (Bulgarian. English and Bulgarian summaries) (*see* **2005f:00011**)
Thas, Charles On the Schiffler center. (English summary)
Tien, Li C. Three pairs of congruent circles in a circle. (English summary)
Volenec, Vladimir *see* **Kolar-Šuper, Ružica**
Walker, Peter L. *see* **Hajja, Mowaffaq**
Wei, Xiang Lin (*with* Zhang, Yu Qin) A type of 4-isosceles set with 6 points. (Chinese. English and Chinese summaries)
Wetzel, John E. Fits and covers.
Witczyński, Krzysztof n-cubes inscribed in simplices. (English summary) **2005k:51022**
— *see also* **Buba-Brzozowa, Małgorzata, 2005a:51022**
Zhang, Yu Qin *see* **Wei, Xiang Lin**

Items with secondary classifications in 51M04

Barnes, Earl R. (*with* Moretti, Antonio Carlos) Some results on centers of polytopes. (English summary) **2005k:90069**
Čerin, Zvonko Homology and orthology with chordal triangles. (English and Serbo-Croatian summaries) **2005a:51025**
— Centres of the golden ratio Archimedean twin circles. (English summary) **2005m:51018**
Hochberg, Robert (*with* Hurlbert, Glenn) Pythagorean quadrilaterals. **2005g:11016**
Hurlbert, Glenn *see* **Hochberg, Robert, 2005g:11016**
Malakhovskiĭ, V. S. Discrete families of figures generated by prime numbers. (Russian. English and Russian summaries) **2005g:11008**
Moretti, Antonio Carlos *see* **Barnes, Earl R., 2005k:90069**
Pedersen, Steen On the dual spectral set conjecture. (English summary) **2005h:42016**
— The dual spectral set conjecture. (English summary) **2005e:42136**
Schlenker, Jean-Marc La conjecture des soufflets (d'après I. Sabitov). (French summary) [The bellows conjecture (following I. Sabitov)] **2005k:52041**
Ziegler, Martin[2] Computable operators on regular sets. (English summary) **2005g:03110**

51M05 Euclidean geometries (general) and generalizations

Benz, Walter Metric and periodic lines in real inner product space geometries. (English summary) **2005g:51026**
Grigor'yan, Yu. G. Principles of inhomogeneous geometry. (English summary)
Guo, Shu Guang Further generalization of the sine theorem for simplices. (Chinese. English and Chinese summaries)
Horváth, Jenő (*with* Temesvári, Ágota H.) Einige Extremumaufgaben für D-V Zellensysteme von diskreten Punktsystemen. [Some extremum problems for D-V cell systems of discrete point systems]
Pambuccian, Victor Axiomatizations of Euclidean geometry in terms of points, equilateral triangles or squares, and incidence. (English summary) **2005f:51020**
— An axiom system for Lingenberg's metric-Euclidean planes. (English summary) **2005k:51023**
Temesvári, Ágota H. *see* **Horváth, Jenő**

Items with secondary classifications in 51M05

Butler, P. H. *see* **Joyce, William P., 2005f:15030**
Capodaglio Di Cocco, Rita Two loops in the absolute plane. (English summary) **2005j:20085**
Joyce, William P. (*with* Butler, P. H.) The geometric associative algebras of Euclidean space. (English summary) **2005f:15030**
Knüppel, Frieder (*with* Nielsen, Klaus) A supplement to the Alexandrov-Lester theorem. (English summary) **2005k:51028**
Nielsen, Klaus *see* **Knüppel, Frieder, 2005k:51028**
Pambuccian, Victor The simplest axiom system for plane hyperbolic geometry. (English summary) **2005g:03010**
Prażmowski, Krzysztof Multidimensional Euclidean geometry of cycles and axes. (English summary)
Saari, Donald G. Geometry of chaotic and stable discussions. **2005e:91050**
Tyszka, Apoloniusz The Beckman-Quarles theorem for mappings from $\mathbb{C}^2$ to $\mathbb{C}^2$. (English summary) **2005m:39046**
Wojtowicz, Barbara Desargues' configuration in a special layout. (English summary) **2005d:51023**

51M09 Elementary problems in hyperbolic and elliptic geometries

Ehrmann, Jean-Pierre (*with* van Lamoen, Floor) A projective generalization of the Droz-Farny line theorem. (English summary)
van Lamoen, Floor *see* **Ehrmann, Jean-Pierre**
Ungar, Abraham A. The hyperbolic triangle defect. (English summary) (*see* **2005b:00027**)

Items with secondary classifications in 51M09

Felikson, A. A. Coxeter decompositions of bounded hyperbolic pyramids and triangular prisms. (Russian. Russian summary) **2005e:52021**
Guéritaud, François On an elementary proof of Rivin's characterization of convex ideal hyperbolic polyhedra by their dihedral angles. (English summary) **2005j:52013**
Meister, L. (*with* Schaeben, Helmut) A concise quaternion geometry of rotations. (English summary) **2005g:74029**
Schaeben, Helmut *see* **Meister, L., 2005g:74029**
Schlenker, Jean-Marc La conjecture des soufflets (d'après I. Sabitov). (French summary) [The bellows conjecture (following I. Sabitov)] **2005k:52041**
— A rigidity criterion for non-convex polyhedra. (English summary) **2005k:52042**

51M10 Hyperbolic and elliptic geometries (general) and generalizations

Bridgeman, Martin Bounds on the average bending of the convex hull boundary of a Kleinian group. **2005e:51019**
Chouikha, A. Raouf Bonnesen-type inequalities and applications. (English summary) (*see* **2005f:90004**)
Jo, Kyeonghee (*with* Kim, Inkang) Convex affine domains and Markus conjecture. (English summary) **2005k:51024**
Kazaz, M. *see* **Ugurlu, H. H. et al.**
Kim, Inkang *see* **Jo, Kyeonghee, 2005k:51024**
Klawitter, Victoria A ruler and segment-transporter constructive axiomatization of plane hyperbolic geometry. (English summary) **2005g:51027**
Milojević, Miroljub Đ. Axiomatically established order geometry in the EH-geometry. (English summary)
Özdemir, Ali *see* **Ugurlu, H. H. et al.**
Pambuccian, Victor An axiomatics for hyperbolic projective-metric planes in terms of lines and orthogonality. (English summary) **2005j:51012**
— Hyperbolic geometry in terms of point-reflections or of line-orthogonality. (English summary) **2005f:51021**
— The complexity of plane hyperbolic incidence geometry is $\forall\exists\forall\exists$. (English summary) **2005k:51025**
Stachel, Hellmuth (*with* Wallner, Johannes) Ivory's theorem in hyperbolic spaces. (Russian. Russian summary) **2005f:51022**
Ugurlu, H. H. (*with* Kazaz, M.; Özdemir, Ali) Fundamental formulas for geodesic triangles on the dual hyperbolic unit sphere $\widetilde{\mathbb{H}}_0^2$ and Lorentzian geometrical interpretations. (English summary)
Wallner, Johannes *see* **Stachel, Hellmuth, 2005f:51022**
Yu, De Sheng[1] A fixed value theorem for directed areas in hyperbolic circumscribed polygons and its applications. (Chinese. English and Chinese summaries)

Items with secondary classifications in 51M10

Benz, Walter Metric and periodic lines in real inner product space geometries. (English summary) **2005g:51026**
Bezdek, Károly (*with* Connelly, Robert) The Kneser-Poulsen conjecture for spherical polytopes. (English summary) **2005b:51032**
Connelly, Robert *see* **Bezdek, Károly, 2005b:51032**
Falbel, Elisha (*with* Paupert, Julien) Fundamental domains for finite subgroups in $U(2)$ and configurations of Lagrangians. (English summary) **2005i:20064**
Felikson, A. A. Coxeter decompositions of hyperbolic tetrahedra. (Russian. English and Russian summaries) **2005c:20065**
— Lambert cubes that generate discrete groups of reflections. (Russian. Russian summary) **2005d:20066**
Horváth, Ákos G. (*with* Vermes, Imre) Polygons with equal angles in the hyperbolic plane. (English summary) **2005d:51021**
Kim, Inkang Rigidity on symmetric spaces. (English summary) **2005d:53067**
Kim, Young Deuk A theorem on discrete, torsion free subgroups of Isom $\mathbf{H}^n$. (English summary) **2005i:30069**
Kosiorek, Jarosław (*with* Matraś, Andrzej) Some connections between Minkowski and hyperbolic planes. (English summary) **2005d:51005**
Matraś, Andrzej *see* **Kosiorek, Jarosław, 2005d:51005**
Mohanty, Yana Construction of a 3/4-ideal hyperbolic tetrahedron out of ideal tetrahedra. (English summary) **2005c:51021**
Pambuccian, Victor The simplest axiom system for plane hyperbolic geometry. (English summary) **2005g:03010**
Parker, John R. Tetrahedral decomposition of punctured torus bundles. (English summary) **2005g:57037**
Paupert, Julien *see* **Falbel, Elisha, 2005i:20064**
Vermes, Imre *see* **Horváth, Ákos G., 2005d:51021**

51M15 Geometric constructions

Álvarez Gómez, José Manuel *see* **Gancedo Lamadrid, Enrique et al., 2005f:51023**
Danneels, Eric A simple construction of a triangle from its centroid, incenter, and a vertex. (English summary)
Gancedo Lamadrid, Enrique (*with* Álvarez Gómez, José Manuel; Suarez González, Jesús; Vega Menéndez, Javier) A new method to obtain and define regular polyhedra. (English summary) **2005f:51023**
Hästö, Peter A. (*with* Lindén, Henri) Isometries of the half-Apollonian metric. (English summary) **2005b:51031**
Lindén, Henri *see* **Hästö, Peter A., 2005b:51031**
Mramor-Kosta, Neža *see* **Zlobec, Borut Jurčič, 2005h:51014**
Okumura, Hiroshi[1] (*with* Watanabe, Masayuki) The arbelos in n-aliquot parts. (English summary)
Shephard, G. C. Sequences of smoothed polygons. (English summary) **2005a:51023**
Sigur, Steve Where are the conjugates? (English summary)
Sliepčević, Ana (*with* Szirovicza, V.) A classification and construction of entirely circular cubics in the hyperbolic plane. (English summary) **2005c:51018**
Suarez González, Jesús *see* **Gancedo Lamadrid, Enrique et al., 2005f:51023**
Szirovicza, V. *see* **Sliepčević, Ana, 2005c:51018**
Turner, John Christopher Some constructions and theorems in Goldpoint Geometry. **2005f:51024**
Vega Menéndez, Javier *see* **Gancedo Lamadrid, Enrique et al., 2005f:51023**
Watanabe, Masayuki *see* **Okumura, Hiroshi**[1]
Zlobec, Borut Jurčič (*with* Mramor-Kosta, Neža) Geometric constructions on cycles. (English summary) **2005h:51014**

Items with secondary classifications in 51M15

Benz, Walter Metric and periodic lines in real inner product space geometries. (English summary) **2005g:51026**
Beyer, W. A. (*with* Judd, Stephen L.; Solem, Johndale C.) Pseudo-characteristic functions for convex polyhedra. (English summary) **2005d:52005**
Hinz, Andreas M. (*with* Klavžar, Sandi; Milutinović, Uroš; Parisse, Daniele; Petr, Ciril) Metric properties of the Tower of Hanoi graphs and Stern's diatomic sequence. (English summary) **2005m:05081**
Hitzer, Eckhard M. S. Euclidean geometric objects in the Clifford geometric algebra of {origin, 3-space, infinity}. (English summary) **2005m:15075**
Hochberg, Robert (*with* Hurlbert, Glenn) Pythagorean quadrilaterals. **2005g:11016**
Hurlbert, Glenn *see* **Hochberg, Robert, 2005g:11016**
Judd, Stephen L. *see* **Beyer, W. A. et al., 2005d:52005**
Klavžar, Sandi *see* **Hinz, Andreas M. et al., 2005m:05081**
Kulpa, Z. (*with* Markov, Svetoslav M.) On the inclusion properties of interval multiplication: a diagrammatic study. (English summary) **2005d:65071**
Leichtweiß, Kurt Support function and hyperbolic plane. (English summary) **2005f:52021**
Markov, Svetoslav M. *see* **Kulpa, Z., 2005d:65071**
Milutinović, Uroš *see* **Hinz, Andreas M. et al., 2005m:05081**
Parisse, Daniele *see* **Hinz, Andreas M. et al., 2005m:05081**
Petr, Ciril *see* **Hinz, Andreas M. et al., 2005m:05081**
Pridatko, D. I. *see* **Stoyan, Yu. G. et al., 2005j:65022**
Romanova, Tatiana *see* **Stoyan, Yu. G. et al., 2005j:65022**
Schwartz, Richard Evan Modular circle quotients and PL limit sets. (English summary) **2005a:57032**
Sliepčević, Ana Die Kreisbüschel in der isotropen Ebene. (English and Croatian summaries) [Pencil of circles in isotropic plane] **2005k:51029**
Solem, Johndale C. *see* **Beyer, W. A. et al., 2005d:52005**
Stoyan, Yu. G. (*with* Pridatko, D. I.; Romanova, Tatiana) Φ-functions of objects with conical and spherical boundaries. (Russian. English summary) **2005j:65022**
Yuste, Piedad Geometric study of Tablet AO 17264. (Spanish. English and Spanish summaries)

51M16 Inequalities and extremum problems {For convex problems, see 52A40.}

Bezdek, Károly (*with* Connelly, Robert) The Kneser-Poulsen conjecture for spherical polytopes. (English summary) **2005b:51032**

Bilchev, Svetoslav Ĭ. (*with* Velikova, Emilia Angelova) Asymmetric quadrilateral inequalities with transformations. (English summary) (*see* **2005c:00019**)
Connelly, Robert *see* **Bezdek, Károly**, **2005b:51032**
Dergiades, Nikolaos Signed distances and the Erdős-Mordell inequality. (English summary)
— *see also* **Nguyen Minh Ha**
Gensane, Thierry (*with* Ryckelynck, Philippe) On the maximal inflation of two squares. (English summary)
Gueron, Shay (*with* Shafrir, Itai) A weighted Erdős-Mordell inequality for polygons.
He, Bin Wu (*with* Li, Xiao Yan[1]; Leng, Gang Song) An inequality for two simplices and two points. (English summary) **2005b:51033**
Janous, Walter Further inequalities of Erdős-Mordell type. (English summary)
Jiang, Hui *see* **Zhang, Chao Yan**
Leng, Gang Song *see* **He, Bin Wu et al.**, **2005b:51033**
Li, Xiao Yan[1] *see* **He, Bin Wu et al.**, **2005b:51033**
Liu, Jian A deduction from a Wolstenholme inequality and its application. (Chinese. English and Chinese summaries)
Nguyen Minh Ha (*with* Dergiades, Nikolaos) Garfunkel's inequality. (English summary)
— Another proof of Fagnano's inequality. (English summary)
Pop, Ovidiu T. (*with* Voicu, Constantin) On some inequalities for right triangles. (English summary)
Romero Márquez, Juan-Bosco An inequality for right triangles. (Spanish. English summary)
Ryckelynck, Philippe *see* **Gensane, Thierry**
Satnoianu, Razvan Alin Refined geometric inequalities between two or more triangles obtained by dedublation. (English summary) **2005c:51019**
Shafrir, Itai *see* **Gueron, Shay**
Velikova, Emilia Angelova *see* **Bilchev, Svetoslav Ĭ.**, (**2005c:00019**)
Veljan, Darko Geometry and convexity of $\cos\sqrt{x}$.
Voicu, Constantin *see* **Pop, Ovidiu T.**
Yang, Shi Guo Improvement of an n-dimensional Euler inequality. (Chinese. English and Chinese summaries)
— A class of geometric inequalities for an interior point of a simplex. (Chinese. English and Chinese summaries)
Zhang, Chao Yan (*with* Jiang, Hui) An inequality for k n-dimensional simplexes. (Chinese. English and Chinese summaries)

Items with secondary classifications in 51M16

Guo, Shu Guang Further generalization of the sine theorem for simplices. (Chinese. English and Chinese summaries)
Horváth, Jenő (*with* Temesvári, Ágota H.) Einige Extremumaufgaben für D-V Zellensysteme von diskreten Punktsystemen. [Some extremum problems for D-V cell systems of discrete point systems]
Jalal, Galina (*with* Krarup, Jakob) Geometrical solution to the Fermat problem with arbitrary weights. (English summary) **2005d:90072**
Krarup, Jakob *see* **Jalal, Galina**, **2005d:90072**
Leng, Gang Song *see* **Wu, Dong Hua et al.**, **2005i:52015**
Petitjean, Michel From shape similarity to shape complementarity: toward a docking theory. (English summary) **2005g:60036**
Temesvári, Ágota H. *see* **Horváth, Jenő**
Wu, Dong Hua (*with* Leng, Gang Song; Zhou, Yongguo) Inequalities for vertex distances of two simplices. (English summary) **2005i:52015**
Yang, Shi Guo Inequalities for inscribed simplexes. (English summary)
Zhang, Han Fang The k-n type Neuberg-Pedoe inequality in the Euclidean space E^n. (Chinese. English and Chinese summaries)
Zhou, Yongguo *see* **Wu, Dong Hua et al.**, **2005i:52015**

51M20 Polyhedra and polytopes; regular figures, division of spaces [see also 51F15]

Chakerian, G. D. (*with* Klamkin, M. S.) A three-point characterization of central symmetry.
Dyllong, Eva (*with* Luther, Wolfram J.) The GJK distance algorithm: an interval version for incremental motions. (English summary)
Hartley, Michael I. (*with* Leemans, Dimitri) Quotients of a universal locally projective polytope of type $\{5, 3, 5\}$. (English summary) **2005c:51020**
Horváth, Ákos G. (*with* Vermes, Imre) Polygons with equal angles in the hyperbolic plane. (English summary) **2005d:51021**
Klamkin, M. S. *see* **Chakerian, G. D.**
Leemans, Dimitri *see* **Hartley, Michael I.**, **2005c:51020**
Luther, Wolfram J. *see* **Dyllong, Eva**
Meixner, T. (*with* Metsch, Klaus) Über Vierecke, in denen Kanten- und Flächenschwerpunkt übereinstimmen. (German summary) [On quadrangles for which the center of gravity of the edges and the centroid coincide] **2005e:51020**
Metsch, Klaus *see* **Meixner, T.**, **2005e:51020**
Mohanty, Yana Construction of a 3/4-ideal hyperbolic tetrahedron out of ideal tetrahedra. (English summary) **2005c:51021**
Vermes, Imre *see* **Horváth, Ákos G.**, **2005d:51021**

Items with secondary classifications in 51M20

Álvarez Gómez, José Manuel *see* **Gancedo Lamadrid, Enrique et al.**, **2005f:51023**
Brieskorn, Egbert (*with* Pratoussevitch, Anna; Rothenhäusler, Frank) The combinatorial geometry of singularities and Arnold's series E, Z, Q. (English and Russian summaries) **2005a:30071**
Buba-Brzozowa, Małgorzata Analogues of the nine-point circle for orthocentric n-simplexes. (English summary) **2005k:51021**
Chen, Beifang Ehrhart polynomials of lattice polyhedral functions. (English summary) **2005k:11136**
Franklin, W. Randolph Analysis of mass properties of the union of millions of polyhedra. (English summary) (*see* **2005i:65007**)
Gancedo Lamadrid, Enrique (*with* Álvarez Gómez, José Manuel; Suarez González, Jesús; Vega Menéndez, Javier) A new method to obtain and define regular polyhedra. (English summary) **2005f:51023**
Hajja, Mowaffaq (*with* Walker, Peter L.) The inspherical Gergonne center of a tetrahedron. (English summary)
Herman, Allen (*with* Monson, Barry) On the real Schur indices associated with infinite Coxeter groups. **2005k:20093**
van der Kallen, Wilberd *see* **Lindenbergh, Roderik et al.**, **2005c:52010**
Kolar-Begović, Zdenka *see* **Volenec, Vladimir**, **2005k:20177**
Lindenbergh, Roderik (*with* van der Kallen, Wilberd; Siersma, Dirk) Configuration spaces and limits of Voronoi diagrams. (English summary) **2005c:52010**
Monson, Barry *see* **Herman, Allen**, **2005k:20093**
Pakula, Lewis Pseudosphere arrangements with simple complements. (English summary) **2005b:52057**
Plaza, Ángel (*with* Rivara, Maria-Cecilia) Average adjacencies for tetrahedral skeleton-regular partitions. (English summary) **2005i:65022**
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Schulte, Egon Chiral polyhedra in ordinary space. I. (English summary) **2005d:52020**
Siersma, Dirk *see* **Lindenbergh, Roderik et al.**, **2005c:52010**
Suarez González, Jesús *see* **Gancedo Lamadrid, Enrique et al.**, **2005f:51023**
Vale, Richard (*with* Waldron, Shayne) The vertices of the platonic solids are tight frames. (English summary) **2005e:42100**
Vega Menéndez, Javier *see* **Gancedo Lamadrid, Enrique et al.**, **2005f:51023**
Volenec, Vladimir (*with* Kolar-Begović, Zdenka) Affine regular pentagons in GS-quasigroups. (English summary) **2005k:20177**
Waldron, Shayne *see* **Vale, Richard**, **2005e:42100**
Walker, Peter L. *see* **Hajja, Mowaffaq**
Witczyński, Krzysztof n-cubes inscribed in simplices. (English summary) **2005k:51022**

51M25 Length, area and volume [see also 26B15]

Álvarez Paiva, Juan Carlos (*with* Thompson, Anthony) On the perimeter and area of the unit disc. **2005i:51012**
Apostol, Tom M. (*with* Mnatsakanian, Mamikon A.) Isoperimetric and isoparametric problems. **2005j:51013**
Dubeau, François (*with* Labbé, Sébastien) A general form of Pick's theorem. (English summary) **2005j:51014**
Hajłasz, Piotr (*with* Strzelecki, Paweł) How to measure volume with a thread.
Hizarci, Seyfullah (*with* İpek, A. S.) Changes in geometry: invariant areas in Euclid geometry. (English summary) **2005b:51034**
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Klain, Daniel A. An intuitive derivation of Heron's formula.
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Maehara, Hiroshi (*with* Zamfirescu, Tudor) On the perimeter of a triangle in a Minkowski plane.
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Strzelecki, Paweł *see* **Hajłasz, Piotr**
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Volenec, Vladimir Outer product and oriented area of a polygon in Euclidean plane. (English summary) **2005a:51024**
Zamfirescu, Tudor *see* **Maehara, Hiroshi**

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Alt, Helmut (*with* Knauer, Christian; Wenk, Carola) Comparison of distance measures for planar curves. (English summary) **2005i:68079**
Apostol, Tom M. (*with* Mnatsakanian, Mamikon A.) A fresh look at the method of Archimedes. **2005f:26002**
Bezdek, Károly (*with* Connelly, Robert) The Kneser-Poulsen conjecture for spherical polytopes. (English summary) **2005b:51032**
Bjelica, Momčilo Area and length of spherical cycloid. (English summary)
Chisholm, C. (*with* MacDougall, J. A.) Rational tetrahedra with edges in arithmetic progression. (English summary) **2005k:11058**
Chouikha, A. Raouf Bonnesen-type inequalities and applications. (English summary) (*see* **2005f:90004**)
Connelly, Robert *see* **Bezdek, Károly**, **2005b:51032**
Gual-Arnau, Ximo On the volume from planar sections through a curve. (English summary) **2005m:53144**
Hitzer, Eckhard M. S. Euclidean geometric objects in the Clifford geometric algebra of {origin, 3-space, infinity}. (English summary) **2005m:15075**
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Leroy, Claude C. Liu Hui's algorithm for π: a mathematical detective story. (English summary) **2005c:01005**
MacDougall, J. A. *see* **Chisholm, C.**, **2005k:11058**
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Metsch, Klaus *see* **Meixner, T.**, **2005e:51020**
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Mohanty, Yana Construction of a 3/4-ideal hyperbolic tetrahedron out of ideal tetrahedra. (English summary) **2005c:51021**
Pambuccian, Victor What is plane equiaffine geometry? (English summary) **2005a:51001**
Qiu, Song-Liang (*with* Vuorinen, Matti) Some properties of the gamma and psi functions, with applications. (English summary) **2005i:33002**
Varfolomeev, V. V. Galois groups of the Heron-Sabitov polynomials for pentagons inscribed in a circle. (Russian. Russian summary) **2005b:12010**
Vuorinen, Matti *see* **Qiu, Song-Liang**, **2005i:33002**

Wenk, Carola *see* Alt, Helmut et al., 2005i:68079
Więsław, Witold Exempla mensurae capacitatis cuparum. (*see* 2005j:01002)

51M30 Line geometries and their generalizations [see also 53A25]

Pascali, Eduardo Tangency and orthogonality in metric spaces. (English summary) 2005k:51026

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Riesinger, Rolf Piecewise regular spreads. (English summary) 2005f:51002

51M35 Synthetic treatment of fundamental manifolds in projective geometries (Grassmannians, Veronesians and their generalizations) [see also 14M15]

Naumowicz, Adam (*with* Prażmowski, Krzysztof) The geometry of generalized Veronese spaces. (English summary) 2005d:51022
Pankov, Mark Mappings of the sets of invariant subspaces of null systems. (English summary) 2005h:51015
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Prażmowski, Krzysztof *see* Naumowicz, Adam, 2005d:51022
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51M99 None of the above, but in this section

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Kokkendorff, S. L. Gram matrix analysis of finite distance spaces in constant curvature. (English summary) 2005f:51025
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Watanabe, Masayuki *see* Okumura, Hiroshi[1]

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Bannai, Etsuko (*with* Kawasaki, Kazuki; Nitamizu, Yusuke; Sato, Teppei) An upper bound for the cardinality of an s-distance set in Euclidean space. (English summary) 2005b:05063
Bhattacharya, Prabir (*with* Rosenfeld, Azriel; Weiss, Isaac) Point-to-line mappings and Hough transforms. (English summary) (*see* 2005j:68006)
Garte, Seymour Fractal properties of the human genome. (English summary)
Kawasaki, Kazuki *see* Bannai, Etsuko et al., 2005b:05063
Lordick, Daniel Schattengrenzen krummer Flächen—linearer Zugang zur Involution konjugierter Tangenten in Punkten von Schiebflächen. (Greek. English and Croatian summaries) [Shade lines of curved surfaces—linear approach to involution of conjugate tangents at points of translation surfaces]
Malakhovskiĭ, V. S. On some properties of base sequences of Pythagorean triangles. (Russian. English and Russian summaries)
Nitamizu, Yusuke *see* Bannai, Etsuko et al., 2005b:05063
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Turner, John Christopher Some applications of triangle transformations in Fibonacci geometry. 2005f:11021
Weiss, Isaac *see* Bhattacharya, Prabir et al., (2005j:68006)

51Nxx Analytic and descriptive geometry

51N05 Descriptive geometry [see also 65D17, 68U07]

Ali Said, Mohamed Reconstructing an ellipsoid from its limbs' projections. (English summary)
Banerjee, Sudipto Revisiting spherical trigonometry with orthogonal projectors.
Dür, Arne An algebraic equation for the central projection. (English summary) 2005b:51035
(Horvatić-Baldasar, Ksenija) *see* Stachel, Hellmuth
Jurkin, Ema *see* Kos-Modor, Jasna
Kos-Modor, Jasna (*with* Jurkin, Ema) Faults. (Croatian. English and Croatian summaries)
Stachel, Hellmuth On Arne Dür's equation concerning central axonometries. (English summary)
— What is descriptive geometry for? (Croatian. Croatian summary)

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Arcos, Gabriel (*with* Montilla, Guillermo; Ortega, José R.; Paluszny, Marco) 3D lemniscates with four non-coplanar foci. (English summary) (*see* 2005i:65007)
Ballico, Edoardo Space curves and trisecant lines. (English summary) 2005m:14054
Dyn, Nira *see* Sheffer, Alla et al., (2005f:65004)
Gotsman, Craig *see* Sheffer, Alla et al., (2005f:65004)
Koźniewski, Edwin Geometry of roofs from the view point of graph theory. (English summary)
Lordick, Daniel Schattengrenzen krummer Flächen—linearer Zugang zur Involution konjugierter Tangenten in Punkten von Schiebflächen. (Greek. English and Croatian summaries) [Shade lines of curved surfaces—linear approach to involution of conjugate tangents at points of translation surfaces]
Montilla, Guillermo *see* Arcos, Gabriel et al., (2005i:65007)
Nosovskiĭ, G. V. Computer gluing of 2D projective images. (English summary) (*see* 2005a:53001)
Odell, P. L. *see* Piziak, R., 2005i:15007
Ortega, José R. *see* Arcos, Gabriel et al., (2005i:65007)
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Peters, Jörg Mid-structures linking curved and piecewise linear geometry. (English summary) (*see* 2005i:65007)
Piziak, R. (*with* Odell, P. L.) Affine projections. (English summary) 2005i:15007
Prażmowski, Krzysztof Projections of cylinders and generalization of the parabeln model of affine geometry. (English summary) 2005b:51036
Saliola, Franco (*with* Whiteley, Walter) Constraining plane configurations in CAD: circles, lines, and angles in the plane. (English summary) 2005k:68212
Sheffer, Alla (*with* Gotsman, Craig; Dyn, Nira) Robust spherical parameterization of triangular meshes. (English summary) (*see* 2005f:65004)
Tavkhelidze, I. On the analytic representation of one class of geometric figures, surfaces and lines. (English and Georgian summaries)
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51N10 Affine analytic geometry

Prażmowski, Krzysztof Projections of cylinders and generalization of the parabeln model of affine geometry. (English summary) 2005b:51036
Top, Jaap Cubic plaster models. (Dutch)

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Frank-Kamenetskiĭ, M. M. *see* Shikin, E. V., 2005h:00007
Li, Hong Bo Algebraic representation, elimination and expansion in automated geometric theorem proving. (English summary) 2005e:68212
Narboux, Julien A decision procedure for geometry in Coq. (English summary) (*see* 2005m:68012)
Shikin, E. V. (*with* Frank-Kamenetskiĭ, M. M.) ★ Кривые на плоскости и в пространстве. (Russian) [Curves on a plane and in space] 2005h:00007
Stachel, Hellmuth (*with* Wallner, Johannes) Ivory's theorem in hyperbolic spaces. (Russian. Russian summary) 2005f:51022
Wallner, Johannes *see* Stachel, Hellmuth, 2005f:51022

51N15 Projective analytic geometry

Finkelnberg, H. Dimension 5 in sight. (Dutch)
Laurie, H. (*with* Penne, R.) Projective geometry of human motion, with an application to injury risk. (English summary) 2005i:51014
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Thas, Charles Projectivities between bundles of plane higher order curves. (English summary) 2005m:51017

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Albrecht, Gudrun An algorithm for parametric quadric patch construction. (English summary) 2005k:65025
Chien, Mao-Ting (*with* Nakazato, Hiroshi) Complex formulation of Poncelet property in numerical range. (English summary) 2005i:15044
(Förstner, Wolfgang) *see* Heuel, Stephan, 2005e:62003
Heuel, Stephan ★ Uncertain projective geometry. 2005e:62003
Megyesi, Gábor (*with* Sottile, Frank) The envelope of lines meeting a fixed line and tangent to two spheres. (English summary) 2005m:53006
Mramor-Kosta, Neža *see* Zlobec, Borut Jurčič, 2005h:51014
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51N20 Euclidean analytic geometry

Alperin, Roger C. A grand tour of pedals of conics. (English summary)
Bkdadi, Mohamad (*with* So, Shing; Yousef, Mahmoud) The three-point problem in taxicab circles. (English summary) 2005f:51026
Čerin, Zvonko Homology and orthology with chordal triangles. (English and Serbo-Croatian summaries) 2005a:51025
— Centres of the golden ratio Archimedean twin circles. (English summary) 2005m:51018
Gibert, Bernard Generalized Mandart conics. (English summary)
Gichev, Todor R. (*with* Gicheva, Dora T.) Perturbations in the canonical equations of second-degree surfaces. (English and Bulgarian summaries) (*see* 2005f:00011)
Gicheva, Dora T. *see* Gichev, Todor R., (2005f:00011)
Gorjanc, Sonja Quartics in E^3 which have a triple point and touch the plane at infinity through the absolute conic. (English summary)
Grinberg, Darij (*with* Myakishev, Alexei) A generalization of the Kiepert hyperbola. (English summary)
Malakhovskiĭ, N. V. On a geometric interpretation of the affine classification of real conics. (Russian. English and Russian summaries) 2005g:51028
— Circles of proportional sections of triangles. (Russian. English and Russian summaries)
— Conics generated by isogonal and isotomic transformations of the plane. (Russian. English and Russian summaries)
Myakishev, Alexei *see* Grinberg, Darij
Nguyen, Khoa Lu A synthetic proof of Goormaghtigh's generalization of Musselman's theorem. (English summary)
So, Shing *see* Bkdadi, Mohamad et al., 2005f:51026
Volenec, Vladimir Metrical relations in barycentric coordinates. (English summary)
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Yousef, Mahmoud *see* Bkdadi, Mohamad et al., 2005f:51026

Items with secondary classifications in 51N20

(Archimedes) *see* **Lévy-Leblond, Jean-Marc**, 2005d:51001
(Euclid) *see* **Lévy-Leblond, Jean-Marc**, 2005d:51001
Kendig, Keith ★ Conics.
Lévy-Leblond, Jean-Marc N-dimensional variations on themes of Pythagoras, Euclid, and Archimedes. **2005d:51001**
Manhart, Friedrich *see* **Peternell, Martin**, 2005f:53007
Meixner, T. (*with* Metsch, Klaus) Über Vierecke, in denen Kanten- und Flächenschwerpunkt übereinstimmen. (German summary) [On quadrangles for which the center of gravity of the edges and the centroid coincide] **2005e:51020**
Metsch, Klaus *see* **Meixner, T.**, 2005e:51020
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Peternell, Martin (*with* Manhart, Friedrich) The convolution of a paraboloid and a parametrized surface. (English summary) **2005f:53007**
Piziak, R. (*with* Odell, P. L.) Affine projections. (English summary) **2005i:15007**
(Pythagoras) *see* **Lévy-Leblond, Jean-Marc**, 2005d:51001
Schröcker, Hans-Peter (*with* Wallner, Johannes) Curvatures and tolerances in the Euclidean motion group. (English summary) **2005m:53008**
Wallner, Johannes *see* **Schröcker, Hans-Peter**, 2005m:53008
Wu, Tzong-Mou Geometric mapping matrices. (English summary)

51N25 Analytic geometry with other transformation groups

Beban-Brkić, Jelena (*with* Volenec, Vladimir) Butterflies in the isotropic plane. (English and Croatian summaries) **2005k:51027**
Lugojan, Sorin An extension of Erlangen program. (English summary)
Volenec, Vladimir *see* **Beban-Brkić, Jelena**, 2005k:51027

Items with secondary classifications in 51N25

Bertram, Wolfgang From linear algebra via affine algebra to projective algebra. (English summary) **2005b:51003**
Buba-Brzozowa, Małgorzata (*with* Witczyński, Krzysztof) Some properties of orthocentric simplexes. **2005a:51022**
Carnicer, J. M. (*with* Mainar, E.; Peña, Juan Manuel) Representing circles with five control points. (English summary) **2005a:65012**
Cho, Hee Cheol (*with* Choi, Hyeong In; Kwon, Song-Hwa; Lee, Doo Seok; Wee, Nam-Sook) Clifford algebra, Lorentzian geometry, and rational parametrization of canal surfaces. (English summary) **2005c:15043**
Choi, Hyeong In *see* **Cho, Hee Cheol et al.**, 2005c:15043
Kolar-Šuper, Ružica (*with* Volenec, Vladimir) Stammler's circles, Stammler's triangle and Morley's triangle of a given triangle. (English summary)
Kwon, Song-Hwa *see* **Cho, Hee Cheol et al.**, 2005c:15043
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Mainar, E. *see* **Carnicer, J. M. et al.**, 2005a:65012
Peña, Juan Manuel *see* **Carnicer, J. M. et al.**, 2005a:65012
Sabitov, I. Kh. Solution of polyhedra. (English summary) **2005e:52032**
Volenec, Vladimir *see* **Kolar-Šuper, Ružica**
Wee, Nam-Sook *see* **Cho, Hee Cheol et al.**, 2005c:15043
Witczyński, Krzysztof *see* **Buba-Brzozowa, Małgorzata**, 2005a:51022

51N30 Geometry of classical groups [see also 20Gxx, 14L35]

Knüppel, Frieder (*with* Nielsen, Klaus) A supplement to the Alexandrov-Lester theorem. (English summary) **2005k:51028**
Nielsen, Klaus *see* **Knüppel, Frieder**, 2005k:51028

Items with secondary classifications in 51N30

Ellers, Erich W. (*with* Villa, Oliver) Siegel transformations for even characteristic. (English summary) **2005i:20072**
Lugojan, Sorin An extension of Erlangen program. (English summary)
Turski, Jacek Geometric Fourier analysis of the conformal camera for active vision. (English summary) **2005i:43010**
Villa, Oliver *see* **Ellers, Erich W.**, 2005i:20072

51N35 Questions of classical algebraic geometry [see also 14Nxx]

Dovniković, Lazar Relativistic homology as a way of tying or untying singular points. (English summary)

Items with secondary classifications in 51N35

De Poi, Pietro On first order congruences of lines in $\mathbb{P}^4$ with irreducible fundamental surface. (English summary) **2005k:14115**
Gorjanc, Sonja Quartics in E^3 which have a triple point and touch the plane at infinity through the absolute conic. (English summary)
Lloyd, Peter *see* **Shakiban, Chehrzad**, (**2005b:00027**)
Shakiban, Chehrzad (*with* Lloyd, Peter) Signature curves statistics of DNA supercoils. (English summary) (*see* **2005b:00027**)

51N99 None of the above, but in this section

Schröder, Eberhard M. Mathematisierung der anschaulichen Geometrie. [The mathematization of visual geometry]
Sliepčević, Ana Die Kreisbüschel in der isotropen Ebene. (English and Croatian summaries) [Pencil of circles in isotropic plane] **2005k:51029**

Items with secondary classifications in 51N99

Gao, Xiao-Shan (*with* Li, Ming[1]) Rational quadratic approximation to real algebraic curves. (English summary) **2005j:65012**
Horwitz, Alan L. Ellipses of maximal area and of minimal eccentricity inscribed in a convex quadrilateral. (English summary) **2005k:52007**
Li, Ming[1] *see* **Gao, Xiao-Shan**, 2005j:65012
Marsh, Duncan ★ Applied geometry for computer graphics and CAD. **2005h:65020**

51P05 Geometry and physics (should also be assigned at least one other classification number from Sections 70–86)

Items with secondary classifications in 51P05

Athorne, Chris Covariant hyperelliptic functions of genus 2. (Russian. Russian summary) **2005f:33025**
Dragović, Branko G. Non-Archimedean geometry and physics on adelic spaces. (English summary) **2005c:11166**
Gauthier, Claude *see* **Gravel, P.**, 2005h:83035
Gravel, P. (*with* Gauthier, Claude) Mirror symmetry and conformal flatness in general relativity. (English summary) **2005h:83035**
Knüppel, Frieder (*with* Nielsen, Klaus) A supplement to the Alexandrov-Lester theorem. (English summary) **2005k:51028**
Litvinov, G. L. The Maslov dequantization, idempotent and tropical mathematics: a very brief introduction. (English summary)
Menskiĭ, M. B. Gravitational effects in terms of paths in Minkowski space. (English and Russian summaries) **2005m:83009**
Nielsen, Klaus *see* **Knüppel, Frieder**, 2005k:51028
Ungar, Abraham A. The hyperbolic triangle centroid. (English summary) **2005b:20135**
— On the unification of hyperbolic and Euclidean geometry. (English summary) **2005b:30052**
— Einstein's special relativity: unleashing the power of its hyperbolic geometry. (English summary) **2005j:83005**

52–XX Convex and discrete geometry

52–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

(Goodman, Jacob E.) *see* **Handbook: Discrete and computational geometry**, **2005j:52001**
(O'Rourke, Joseph) *see* **Handbook: Discrete and computational geometry**, **2005j:52001**

Items listed otherwise than by author

Handbook:
Discrete and computational geometry ★ Handbook of discrete and computational geometry. **2005j:52001**

52–01 Instructional exposition (textbooks, tutorial papers, etc.)

Taylor, Patrick ★ Closepacks & quasi-closepacks. **2005h:52001**

52–02 Research exposition (monographs, survey articles)

Aleksandrov, Aleksandr Danilovich ★ Convex polyhedra. **2005j:52002**
(Dairbekov, Nurlan S.) *see* **Aleksandrov, Aleksandr Danilovich**, **2005j:52002**
Deza, Michel (*with* Grishukhin, V. P.; Shtogrin, Mikhail) ★ Scale-isometric polytopal graphs in hypercubes and cubic lattices. **2005f:52001**
Grishukhin, V. P. *see* **Deza, Michel et al.**, **2005f:52001**
(Kutateladze, S. S.) *see* **Aleksandrov, Aleksandr Danilovich**, **2005j:52002**
(Shor, L. A.) *see* **Aleksandrov, Aleksandr Danilovich**, **2005j:52002**
Shtogrin, Mikhail *see* **Deza, Michel et al.**, **2005f:52001**
(Sosinskiĭ, A. B.) *see* **Aleksandrov, Aleksandr Danilovich**, **2005j:52002**
(Volkov, Yu. A.) *see* **Aleksandrov, Aleksandr Danilovich**, **2005j:52002**
(Zalgaller, Viktor Abramovich) *see* **Aleksandrov, Aleksandr Danilovich**, **2005j:52002**

Items with secondary classifications in 52–02

Tamura, Akihisa Applications of discrete convex analysis to mathematical economics. (English summary) **2005d:91030**

52–03 Historical (must also be assigned at least one classification number from Section 01)

Boltyanskii, Vladimir Grigor'evich On a century of Hilbert's third problem. (Russian)
Kutateladze, S. S. One functional-analytical idea by Alexandrov in convex geometry. (English summary) **2005b:52001**
Raĭgorodskiĭ, Andreĭ M. The Borsuk partition problem: the seventieth anniversary. **2005e:52001**

Items with secondary classifications in 52–03

Artmann, Benno Antike Darstellungen des Ikosaeders. [Antique representations of the eicosahedron]
Crabbs, Robert Alan Gaspard Monge and the Monge point of the tetrahedron.
Groemer, H. 100 years of Fourier series and spherical harmonics in convexity. (English summary) **2005e:42010**
(Monge, Gaspard) *see* **Crabbs, Robert Alan**
Sabitov, I. Kh. Around the proof of the Legendre-Cauchy lemma on convex polygons. (Russian. Russian summary) **2005h:52002**
Steurer, Walter Twenty years of structure research on quasicrystals. I. Pentagonal, octagonal, decagonal and dodecagonal quasicrystals. (English summary)

52–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 52–04

Cohen-Steiner, David (*with* Colin de Verdière, Éric; Yvinec, Mariette) Conforming Delaunay triangulations in 3D. (English summary) **2005c:52012**
Colin de Verdière, Éric *see* **Cohen-Steiner, David et al.**, **2005c:52012**
Yvinec, Mariette *see* **Cohen-Steiner, David et al.**, **2005c:52012**

52–06 Proceedings, conferences, collections, etc.

(Akiyama, Jin) *see* **Discrete and computational geometry**, **2005f:52002**
(Kano, Mikio) *see* **Discrete and computational geometry**, **2005f:52002**

Items listed otherwise than by author

Discrete and computational geometry ★ Discrete and computational geometry. **2005f:52002**
Lecture Notes in Computer Science ★ Discrete and computational geometry. **2005f:52002**
Tokyo ★ Discrete and computational geometry. **2005f:52002**

Items with secondary classifications in 52–06

(Barvinok, A. I.) *see* **Integer points in polyhedra—geometry, number theory, algebra, optimization**, **2005j:00018**
(Beck, Matthias) *see* **Integer points in polyhedra—geometry, number theory, algebra, optimization**, **2005j:00018**
(Đinh Thế Lục) *see* **Generalized convexity, generalized monotonicity and applications**, **2005f:90004**
(Eberhard, Andrew) *see* **Generalized convexity, generalized monotonicity and applications**, **2005f:90004**
(Haase, Christian) *see* **Integer points in polyhedra—geometry, number theory, algebra, optimization**, **2005j:00018**
(Hadjisavvas, Nicolas) *see* **Generalized convexity, generalized monotonicity and applications**, **2005f:90004**
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52Axx General convexity

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52A27 Approximation by convex sets

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52B10 Three-dimensional polytopes

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52B12 Special polytopes (linear programming, centrally symmetric, etc.)

Balaban, Alexandru T. (*with* Bonchev, Danail) Complexity, sphericity, and ordering of regular and semiregular polyhedra. (English summary) **2005m:52016**
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52B15 Symmetry properties of polytopes

Grünbaum, Branko Are your polyhedra the same as my polyhedra? **2005a:52012**
— "New" uniform polyhedra. (English summary) **2005b:52023**
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52B20 Lattice polytopes (including relations with commutative algebra and algebraic geometry) [see also 06A11, 13F20, 13Hxx]

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52B22 Shellability

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52B35 Gale and other diagrams

Edelman, Paul H. (*with* Peterson, S. W.; Reiner, Victor; Stout, J. H.) Geochemical phase diagrams and Gale diagrams. (English summary) **2005b:52026**
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52B45 Dissections and valuations (Hilbert's third problem, etc.)

Akiyama, Jin (*with* Fukuda, Hiroshi[2]; Nakamura, Gisaku) Universal measuring devices with rectangular base. (English summary) (*see* **2005f:52002**)
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52B55 Computational aspects related to convexity {For computational geometry and algorithms, see 68Q25, 68U05; for numerical algorithms, see 65Yxx.} [see also 68Uxx]

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52Cxx Discrete geometry

52C05 Lattices and convex bodies in 2 dimensions [see also 11H06, 11H31, 11P21]

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Xu, Chang Qing (*with* Ding, Ren) More about 4-isosceles planar sets. (English summary) **2005b:52040**
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Xu, Chang Qing *see* **Ding, Ren et al., 2005g:52027**

52C15 Packing and covering in 2 dimensions [see also 05B40, 11H31]

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Anstreicher, Kurt M. The thirteen spheres: a new proof. (English summary) **2005e:52027**
Attali, Dominique (*with* Boissonnat, Jean-Daniel) A linear bound on the complexity of the Delaunay triangulation of points on polyhedral surfaces. (English summary)

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— (*with* Szabó, László[2]) Arrangements of 14, 15, 16 and 17 points on a sphere. (English summary) **2005g:52044**
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— Finite coverings in the hyperbolic plane. (English summary) **2005g:52046**
Campbell, Connie (*with* Staton, William) A square-packing problem of Erdős.
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Fodor, Ferenc Packing 14 congruent circles in a circle. (English summary) **2005b:52043**
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Kuperberg, Greg (*with* Kuperberg, Krystyna; Kuperberg, Włodzimierz) Lattice packings with gap defects are not completely saturated. (English summary) **2005c:52016**
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Markót, Mihály Csaba Optimal packing of 28 equal circles in a unit square—the first reliable solution. (English summary) **2005h:52022**
Mochizuki, Rika *see* **Akiyama, Jin et al.**, 2005g:52042
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52C17 Packing and covering in *n* dimensions [see also 05B40, 11H31]

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Beferull-Lozano, B. *see* **Sloane, N. J. A.**, 2005b:52050
Böröczky, Károly (*with* Szabó, László[2]) Minkowski arrangements of spheres. (English summary) **2005k:52038**
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— (*with* Wintsche, Gergely) Covering the sphere by equal spherical balls. (English summary) **2005e:52028**
Bowen, Lewis Periodicity and circle packings of the hyperbolic plane. (English summary) **2005a:52014**
Dutour, Mathieu Infinite serie of extreme Delaunay polytopes. (English summary) **2005h:52023**
Gurin, A. M. A property of the normal partition of a space into polyhedra, induced by a packing of compact bodies. (Russian. English and Russian summaries) **2005b:52046**
Hales, Thomas C. Some algorithms arising in the proof of the Kepler conjecture. (English summary) **2005b:52047**
Henk, Martin Free planes in lattice sphere packings. (English summary) **2005k:52039**
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Kharazishvili, A. B. On homogeneous coverings of Euclidean spaces. (English summary) **2005a:52015**
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Raĭgorodskiĭ, Andreĭ M. On a problem of the optimal covering of sets by balls. (Russian) **2005c:52017**
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Szirmai, Jenő Determining the optimal horoball packings to some famous tilings in the hyperbolic 3-space. (English summary) **2005h:52024**
Talata, István On generalized touching numbers of crosspolytopes. (English summary) **2005b:52051**
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Fischer, Werner Minimal densities of cubic sphere-packing types. (English summary) **2005d:82127**
Gensane, Thierry Dense packings of equal spheres in a cube. (English summary) **2005b:05059**
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Hinrichs, Aicke Covering numbers, Vapnik-Červonenkis classes and bounds for the star-discrepancy. (English summary) **2005e:11098**
Kadets, Vladimir Coverings by convex bodies and inscribed balls. (English summary) **2005j:52011**
Katz, Mikhail G. Four-manifold systoles and surjectivity of period map. (English summary) **2005d:53062**
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Litsyn, Simon *see* **Krivelevich, Michael et al.**, 2005e:05115
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Meyer-Hermann, Michael *see* **Schaller, Gernot**, 2005h:65023
Micciancio, Daniele Almost perfect lattices, the covering radius problem, and applications to Ajtai's connection factor. (English summary) **2005h:68049**
Miyazawa, Flavio Keidi *see* **Kohayakawa, Yoshiharu et al.**, 2005c:90074
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Pinsker, Mark Semenovich *see* **Dumer, I. I. et al.**, 2005i:11087
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Scholl, Peter (*with* Schürmann, Achill; Wills, Jörg M.) A discrete isoperimetric inequality and its application to sphere packings. (English summary) **2005f:52018**
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Yepremyan, Lusine (*with* Falk, James E.) Delaunay partitions in $\mathbf{R}^n$ applied to non-convex programs and vertex/facet enumeration problems. (English summary) **2005g:90173**

52C20 Tilings in 2 dimensions [see also 05B45, 51M20]

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Alexander, Rebecca (*with* Dyson, Heather; O'Rourke, Joseph) The foldings of a square to convex polyhedra. (English summary) **2005g:52047**
Ash, J. Marshall (*with* Golomb, Solomon W.) Tiling deficient rectangles with trominoes.
Bagina, O. Tiling the plane with congruent equilateral convex pentagons. (English summary) **2005c:52018**
Benkart, Georgia (*with* Eng, Oliver) Weighted Aztec diamond graphs and the Weyl character formula. (English summary) **2005f:52035**
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Florian, August Archimedean tilings, and solid and non-solid sets of circles. II. (English summary) **2005j:52023**
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Kazanci, Deniz (*with* Vince, Andrew) A property of normal tilings. **2005g:52048**
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Mann, Casey Heesch's tiling problem. **2005e:52029**
Margenstern, Maurice Tilings of hyperbolic spaces: the splitting method and group theory. (English summary) (*see* **2005c:68010**)
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Su, Zhan-jun (*with* Ding, Ren) On the Helly number for line transversals to parallel triangles. (English summary) **2005d:52038**
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— (*with* Ding, Ren) Tilings of orthogonal polygons with similar rectangles or triangles. (English summary) **2005h:52025**
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Bower, Richard J. (*with* Michael, T. S.) When can you tile a box with translates of two given rectangular bricks? (English summary) **2005a:05062**
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Coulson, D. On the chromatic number of plane tilings. (English summary) **2005c:05049**
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Du, Yatao (*with* Ding, Ren) More on cutting a polygon into triangles of equal areas. (English summary) **2005j:52028**
Eglin-Leclerc, Marie-Christine *see* **Dorkenoo, Marius et al., 2005b:05116**
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Goles Ch., Eric Folding and tiling. (English summary) **2005d:05047**
Goodman-Strauss, C. Piecewise-smooth surfaces as the union of geodesic disks. (English summary) **2005g:52007**
Johansson, Kurt The arctic circle boundary and the Airy process. (English summary) **2005k:60304**
Kitaev, S. (*with* Mansour, Toufik) The problem of the pawns. (English summary) **2005b:05017**
Kranakis, Evangelos *see* **Csizmadia, György et al., 2005b:05061**
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Massen, Claire P. *see* **Doye, Jonathan P. K., 2005m:82056**
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52C26 Circle packings and discrete conformal geometry

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52C30 Planar arrangements of lines and pseudolines

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52C45 Combinatorial complexity of geometric structures [see also 68U05]

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53–XX Differential geometry {For differential topology, see 57Rxx. For foundational questions of differentiable manifolds, see 58Axx.}

53–01 Instructional exposition (textbooks, tutorial papers, etc.)

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53–02 Research exposition (monographs, survey articles)

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53–03 Historical (must also be assigned at least one classification number from Section 01)

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53–04 Explicit machine computation and programs (not the theory of computation or programming)

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53–06 Proceedings, conferences, collections, etc.

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(Baird, Paul) *see* **Variational problems in Riemannian geometry, 2005a:53002**
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53Axx Classical differential geometry

53A04 Curves in Euclidean space

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53C05 Connections, general theory

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53C07 Special connections and metrics on vector bundles (Hermite-Einstein-Yang-Mills) [see also 32Q20]

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53C12 Foliations (differential geometric aspects) [see also 57R30, 57R32]

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53C15 General geometric structures on manifolds (almost complex, almost product structures, etc.)

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53Z05 Applications to physics

54–XX General topology {For the topology of manifolds of all dimensions, see 57Nxx.}

54–01 Instructional exposition (textbooks, tutorial papers, etc.)

Crossley, Martin D. ★ Essential topology. **2005m:54001**
(Hart, Klaas Pieter) *see* **Encyclopedia of general topology, 2005d:54001**
Lin, Shou ★ Duliang kongjian yu hanshu kongjian de tapu. (Chinese. Chinese summary) [Topology of metric spaces and function spaces]
Mioduszewski, Jerzy ★ Wykłady z topologii. (Polish. English and Russian summaries) [Lectures on topology] **2005a:54001**
(Nagata, Jun-Iti) *see* **Encyclopedia of general topology, 2005d:54001**
Preuss, Gerhard ★ Foundations of topology. **2005b:54001**
(Vaughan, Jerry E.) *see* **Encyclopedia of general topology, 2005d:54001**

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54–02 Research exposition (monographs, survey articles)

Iliadis, Stavros ★ Universal spaces and mappings. **2005m:54002**
Nagata, Jun-Iti Open problems left in my wake of research. (English summary) **2005g:54001**

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(Vaughan, Jerry E.) *see* **Encyclopedia of general topology, 2005d:54001**

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54–03 Historical (must also be assigned at least one classification number from Section 01)

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54–04 Explicit machine computation and programs (not the theory of computation or programming)

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54–06 Proceedings, conferences, collections, etc.

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54Axx Generalities

54A05 Topological spaces and generalizations (closure spaces, etc.)

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54A10 Several topologies on one set (change of topology, comparison of topologies, lattices of topologies)

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54A20 Convergence in general topology (sequences, filters, limits, convergence spaces, etc.)

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54A35 Consistency and independence results [see also 03E35]

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54Bxx Basic constructions

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54C08 Weak and generalized continuity

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54C10 Special maps on topological spaces (open, closed, perfect, etc.)

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54C60 Set-valued maps [see also 26E25, 28B20, 47H04, 58C06]

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54D15 Higher separation axioms (completely regular, normal, perfectly or collectionwise normal, etc.)

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54D25 "P-minimal" and "P-closed" spaces

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54D30 Compactness

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54D35 Extensions of spaces (compactifications, supercompactifications, completions, etc.)

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54D40 Remainders

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54D45 Local compactness, σ-compactness

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54D50 k-spaces

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54D60 Realcompactness and realcompactification

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54Exx Spaces with richer structures

54E05 Proximity structures and generalizations

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54E15 Uniform structures and generalizations

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54E40 Special maps on metric spaces

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54E45 Compact (locally compact) metric spaces

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54E50 Complete metric spaces

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54E52 Baire category, Baire spaces

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54E70 Probabilistic metric spaces

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54Fxx Special properties

54F05 Linearly ordered topological spaces, generalized ordered spaces, and partially ordered spaces [see also 06B30, 06F30]

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54F35 Higher-dimensional local connectedness [see also 55Mxx, 55Nxx]

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54F45 Dimension theory [see also 55M10]

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54F50 Spaces of dimension ≤ 1; curves, dendrites [see also 26A03]

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54F55 Unicoherence, multicoherence

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54Gxx Peculiar spaces

54G05 Extremally disconnected spaces, F-spaces, etc.

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54G10 P-spaces

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54G12 Scattered spaces

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54G15 Pathological spaces

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54Hxx Connections with other structures, applications

54H05 Descriptive set theory (topological aspects of Borel, analytic, projective, etc. sets) [see also 03E15, 26A21, 28A05]

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54H10 Topological representations of algebraic systems [see also 22–XX]

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55–XX Algebraic topology

55–01 Instructional exposition (textbooks, tutorial papers, etc.)

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55–04 Explicit machine computation and programs (not the theory of computation or programming)

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55M05 Duality

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55M10 Dimension theory [see also 54F45]

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55M25 Degree, winding number

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55N45 Products and intersections

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55P05 Homotopy extension properties, cofibrations

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55P30 Eckmann-Hilton duality

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55P42 Stable homotopy theory, spectra

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55P43 Spectra with additional structure (E_∞, A_∞, ring spectra, etc.)

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55P92 Relations between equivariant and nonequivariant homotopy theory

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55P99 None of the above, but in this section

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55Qxx Homotopy groups

55Q05 Homotopy groups, general; sets of homotopy classes

Brown, Ronald (*with* Janelidze, George) Galois theory and a new homotopy double groupoid of a map of spaces. (English summary) **2005e:55016**
Chachólski, Wojciech (*with* Parent, Paul-Eugene; Stanley, Donald) Cellular generators. (English summary) **2005h:55012**
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Raussen, Martin *see* **Fajstrup, L. et al.**, **2005a:55010**
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Lee, Kee Young (*with* Mimura, Mamoru; Woo, Moo Ha) Gottlieb groups of homogeneous spaces. (English summary) **2005g:55024**
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Pintea, Cornel The φ-category of the pairs $(G_{k,n}, S^m)$, $(P_n(\mathbf{R}), T^a \times \mathbf{R}^{m-a})$. (English summary) **2005c:57044**
Smith, Samuel Bruce *see* **Lupton, Gregory, 2005h:55010**
Woo, Moo Ha *see* **Lee, Kee Young et al., 2005g:55024**

55Q10 Stable homotopy groups

Liu, Xiu Gui *see* **Xiao, Jian Ming**
Xiao, Jian Ming (*with* Liu, Xiu Gui) Two new elements of the stable homotopy group of spheres: $h_0(b_1)^3\widetilde{\gamma}_s$ and $(b_1)^3 g_0\widetilde{\gamma}_s$. (Chinese. English and Chinese summaries)

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Hu, Po (*with* Kriz, Igor) Real cobordism and greek letter elements in the geometric chromatic spectral sequence. (English summary) **2005d:55021**
Johnson, Inga Factoring 2^k on stunted projective spectra and the root invariant. (English summary) **2005a:55014**
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Lee, Kee Young (*with* Mimura, Mamoru; Woo, Moo Ha) Gottlieb groups of homogeneous spaces. (English summary) **2005g:55024**
Libardi, Alice Kimie Miwa *see* **Biasi, Carlos, 2005h:57040**
Mimura, Mamoru *see* **Lee, Kee Young et al., 2005g:55024**
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55Q15 Whitehead products and generalizations

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— (*with* Abughazalah, Nabilah) On the homotopy type of $(n-1)$-connected $(3n+1)$-dimensional free chain Lie algebra. (English summary) **2005h:55013**
Papadima, Ştefan (*with* Suciu, Alexander I.) Homotopy Lie algebras, lower central series and the Koszul property. (English summary) **2005g:55022**
Suciu, Alexander I. *see* **Papadima, Ştefan, 2005g:55022**
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Halperin, Stephen *see* **Felix, Yves et al., 2005b:55012**
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Thomas, Jean-Claude *see* **Felix, Yves et al., 2005b:55012**
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55Q20 Homotopy groups of wedges, joins, and simple spaces

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Eda, Katsuya *see* **Conner, Greg, 2005k:55019**
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55Q25 Hopf invariants

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Hilton, Peter *see* **Dula, Giora, 2005f:55009**
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55Q35 Operations in homotopy groups

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55Q40 Homotopy groups of spheres

Items with secondary classifications in 55Q40

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Woo, Moo Ha *see* **Lee, Kee Young et al., 2005g:55024**

55Q45 Stable homotopy of spheres

Hu, Po (*with* Kriz, Igor) Real cobordism and greek letter elements in the geometric chromatic spectral sequence. (English summary) **2005d:55021**
Ichigi, Ippei (*with* Shimomura, Katsumi) $E(2)$-invertible spectra smashing with the Smith-Toda spectrum $V(1)$ at the prime 3. (English summary) **2005b:55027**
Johnson, Inga Factoring 2^k on stunted projective spectra and the root invariant. (English summary) **2005a:55014**
Kriz, Igor *see* **Hu, Po, 2005d:55021**
Lin, Jinkun Third periodicity families in the stable homotopy of spheres. (English summary) **2005b:55028**
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Behrens, Mark (*with* Pemmaraju, Satya) On the existence of the self map v_2^9 on the Smith-Toda complex $V(1)$ at the prime 3. (English summary) **2005b:55029**
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55Q50 J-morphism [see also 19L20]

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Duan, Hai Bao (*with* Su, Yang) Smooth manifolds of a given homotopy type. (English summary) **2005d:57040**
Matthey, Michel Some homotopy of the unitary groups detected by the K-theory of 2-cell complexes. **2005k:55018**
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55Q51 v_n-periodicity

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Bousfield, A. K. On the 2-primary v_1-periodic homotopy groups of spaces. (English summary) **2005j:55018**
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Items with secondary classifications in 55Q51

Bendersky, Martin (*with* Hunton, John R.) On the coalgebraic ring and Bousfield-Kan spectral sequence for a Landweber exact spectrum. (English summary) **2005j:55010**
Davis, Donald M. Representation types and 2-primary homotopy groups of certain compact Lie groups. (English summary) **2005b:55030**
Hunton, John R. *see* **Bendersky, Martin, 2005j:55010**
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Lin, Jinkun Third periodicity families in the stable homotopy of spheres. (English summary) **2005b:55028**
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55Q52 Homotopy groups of special spaces

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Symonds, Peter The Tate-Farrell cohomology of the Morava stabilizer group S_{p-1} with coefficients in E_{p-1}. (English summary) **2005c:55023**
Theriault, Stephen D. Homotopy exponents of Harper's spaces. (English summary) **2005c:55024**
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Cohen, Frederick R. On loop spaces of configuration spaces, and related spaces. (English summary) **2005e:55025**
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Levi, Ran *see* **Broto, Carlos et al., 2005h:20040**
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Rigas, A. G. *see* **Püttmann, Thomas, 2005b:57063**
Stelzer, Manfred Hyperbolic spaces at large primes and a conjecture of Moore. (English summary) **2005e:55020**
Woo, Moo Ha *see* **Lee, Kee Young et al., 2005g:55024**
Yamaguchi, Kohhei Connective coverings of spaces of holomorphic maps. **2005c:58019**

55Q55 Cohomotopy groups

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— (*with* Furuta, Mikio) A stable cohomotopy refinement of Seiberg-Witten invariants. I. (English summary) **2005c:57040**
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Christensen, J. Daniel (*with* Isaksen, Daniel C.) Duality and pro-spectra. (English summary) **2005h:55007**
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Isaksen, Daniel C. *see* **Christensen, J. Daniel, 2005h:55007**
Nowak, Sławomir Stable cohomotopy groups of compact spaces. (English summary) **2005c:55015**

55Q70 Homotopy groups of special types [see also 55N05, 55N07]

Lee, Kee Young (*with* Mimura, Mamoru; Woo, Moo Ha) Gottlieb groups of homogeneous spaces. (English summary) **2005g:55024**
Mimura, Mamoru *see* **Lee, Kee Young et al., 2005g:55024**
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Items with secondary classifications in 55Q70

Conner, Greg (*with* Eda, Katsuya) Fundamental groups having the whole information of spaces. (English summary) **2005k:55019**
Eda, Katsuya *see* **Conner, Greg, 2005k:55019**

55Q91 Equivariant homotopy groups [see also 19L47]

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Krawcewicz, Wiesław *see* **Balanov, Zalman et al., 2005f:37107**
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55Q99 None of the above, but in this section

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Larose, Benoit (*with* Tardif, Claude) A discrete homotopy theory for binary reflexive structures. (English summary) **2005k:06025**
Ozan, Yildiray On homotopy groups of real algebraic varieties and their complexifications. (English summary) **2005m:14111**
Podkorytov, S. S. On mappings of a sphere onto a simply connected space with finitely generated homotopy groups. (Russian. Russian summary) **2005h:55018**
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55Rxx Fiber spaces and bundles [see also 18F15, 32Lxx, 46M20, 57R20, 57R22, 57R25]

55R05 Fiber spaces

Ivan, Gheorghe (*with* Ivan, Mihai) Algebraic properties of refinements of a differentiable principal bundle. (English summary) **2005a:55015**
Ivan, Mihai *see* **Ivan, Gheorghe, 2005a:55015**
Kadeishvili, Tornike (*with* Saneblidze, Samson) A cubical model for a fibration. (English summary) **2005k:55020**
Saneblidze, Samson *see* **Kadeishvili, Tornike, 2005k:55020**

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Booth, Peter I. Mapping spaces and homotopy theory. (English summary) **2005m:55009**
Fuller, Terry Lefschetz fibrations of 4-dimensional manifolds. **2005b:57046**
Lin, James P. Indecomposables of multiplicative fibrations. (English summary) **2005c:55025**
Makeev, V. V. On some combinatorial geometry problems for vector bundles. (Russian) **2005b:52009**

55R10 Fiber bundles

Ivan, Gheorghe The induced principal bundle with structure Lie groupoid. (English summary) **2005b:55031**
— (*with* Opriş, Dumitru) Old and new aspects in the study of refinements of a principal bundle. **2005b:55032**
Kono, Akira[1] (*with* Kuribayashi, Katsuhiko) Module derivations and cohomological splitting of adjoint bundles. (English summary) **2005f:55010**
Kuribayashi, Katsuhiko *see* **Kono, Akira**[1], **2005f:55010**
Lyons, David W. An elementary introduction to the Hopf fibration.
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Trenčevski, Kostadin G. On the permutation products of torus. (English summary) **2005g:55025**
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Bucataru, Ioan (*with* Epstein, Marcelo) Geometrical theory of dislocations in bodies with microstructure. (English summary) **2005h:74006**
Epstein, Marcelo *see* **Bucataru, Ioan, 2005h:74006**
Grasse, Kevin A. A vector-bundle version of a theorem of V. Doležal. (English summary) **2005g:15003**
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Nistor, Victor (*with* Troitskiĭ, E. V.) An index for gauge-invariant operators and the Dixmier-Douady invariant. (English summary) **2005b:58028**
Tanaka, Ryuichi On the index and co-index of sphere bundles. (English summary) **2005f:55011**
Troitskiĭ, E. V. *see* **Nistor, Victor, 2005b:58028**

55R12 Transfer

Items with secondary classifications in 55R12

Bakuradze, Malkhaz (*with* Priddy, Stewart) Transferred Chern classes in Morava K-theory. (English summary) **2005a:55017a**
— (*with* Priddy, Stewart) Erratum to: "Transferred Chern classes in Morava K-theory" [Proc. Amer. Math. Soc. **132** (2004), no. 6, 1855–1860; MR2051151 (2005a:55017a)]. **2005a:55017b**
Costenoble, Steven R. (*with* Waner, Stefan) Equivariant vector fields and self-maps of spheres. (English summary) **2005a:57026**
Priddy, Stewart *see* **Bakuradze, Malkhaz, 2005a:55017a** *and* **2005a:55017b**
Waner, Stefan *see* **Costenoble, Steven R., 2005a:57026**

55R15 Classification

Items with secondary classifications in 55R15

Cohen, Ralph L. (*with* Stacey, Andrew) Fourier decompositions of loop bundles. (English summary) **2005c:57034**
Stacey, Andrew *see* **Cohen, Ralph L., 2005c:57034**

55R20 Spectral sequences and homology of fiber spaces [see also 55Txx]

Lin, James P. Indecomposables of multiplicative fibrations. (English summary) **2005c:55025**

Muñoz, Vicente Leray-Serre spectral sequence for quasi-fibrations. (English summary) 2005c:55026

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Gonçalves, Daciberg Lima (*with* Wong, Peter N.-S.) Obstruction theory and coincidences of maps between nilmanifolds. (English summary) **2005m:55002**
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Jiang, DongHua Un 3-polyGEM de cohomologie modulo 2 nilpotente. (English and French summaries) [A 3-polyGEM of nilpotent cohomology modulo 2] **2005j:55022**
Jones, John D. S. *see* **Cohen, Ralph L. et al., 2005c:55016**
Lalonde, François (*with* Pinsonnault, Martin) The topology of the space of symplectic balls in rational 4-manifolds. (English summary) **2005d:57038**
Mikiashvili, M. *see* **Berikashvili, N., 2005e:55006**
Pinsonnault, Martin *see* **Lalonde, François, 2005d:57038**
Priddy, Stewart *see* **Bakuradze, Malkhaz, 2005a:55017a** *and* **2005a:55017b**
Wong, Peter N.-S. *see* **Gonçalves, Daciberg Lima, 2005m:55002**
Yamaguchi, Kohhei Connective coverings of spaces of holomorphic maps. **2005c:58019**
Yan, Jun *see* **Cohen, Ralph L. et al., 2005c:55016**

55R25 Sphere bundles and vector bundles

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Ishikawa, Masaharu Tangent circle bundles admit positive open book decompositions along arbitrary links. (English summary) **2005e:57047**
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55R35 Classifying spaces of groups and H-spaces

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55R65 Generalizations of fiber spaces and bundles

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55R70 Fibrewise topology

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55R80 Discriminantal varieties, configuration spaces

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55R91 Equivariant fiber spaces and bundles [see also 19L47]

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55R99 None of the above, but in this section

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55Sxx Operations and obstructions

55S05 Primary cohomology operations

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55S10 Steenrod algebra

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55S12 Dyer-Lashof operations

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55S15 Symmetric products, cyclic products

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— *see also* **Blanc, David A. et al., 2005b:55008** *and* **Christensen, J. Daniel et al., 2005e:55032**
Felix, Yves (*with* Jessup, Barry; Murillo, Aniceto) Anick's conjecture for spaces with decomposable Postnikov invariants. (English summary) **2005h:55017**
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Goerss, Paul G. *see* **Blanc, David A. et al., 2005b:55008**
Goodwillie, Thomas G. Calculus. III. Taylor series. (English summary) **2005e:55015**
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Hovey, Mark Homotopy theory of comodules over a Hopf algebroid. (English summary) **2005f:18011**
Isaksen, Daniel C. *see* **Dugger, Daniel, 2005e:18018**; **Christensen, J. Daniel et al., 2005e:55032** *and* **2005h:55007**
Jardine, J. F. Simplicial approximation. (English summary) **2005b:55042**
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Kosarew, Siegmund *see* **Peters, Chris A. M., 2005k:14014**
Lada, Tom L_∞ algebra representations. (English summary) **2005f:18013**
Lárusson, Finnur Model structures and the Oka principle. (English summary) **2005e:32043**
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Mitra, Shibopriya (*with* Adhikari, M. R.) Functors associated with Hopf's groups. (English summary)
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Peters, Chris A. M. (*with* Kosarew, Siegmund) Introduction to Lawson homology. (English summary) **2005k:14014**
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Schwede, Stefan Morita theory in abelian, derived and stable model categories. **2005m:18015**
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— *see also* **Dugger, Daniel, 2005e:19005**
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Su, C. Joanna On long exact $(\overline{\pi}, \mathrm{Ext}_\Lambda)$-sequences in module theory. (English summary) **2005h:18037**
Thomas, Jean-Claude *see* **Chataur, David, 2005k:55011**
Ulualan, Erdal Reduced quadratic modules and simplicial groups. (English summary) **2005i:18006**

55U40 Topological categories, foundations of homotopy theory

Items with secondary classifications in 55U40

Abughazalah, Nabilah *see* **Benkhalifa, Mahmoud, 2005h:55013**
Benkhalifa, Mahmoud On the homotopy type of a chain algebra. (English summary) **2005a:55011**
— Whitehead exact sequence and differential graded free Lie algebra. (English summary) **2005h:17029**
— (*with* Abughazalah, Nabilah) On the homotopy type of $(n-1)$-connected $(3n+1)$-dimensional free chain Lie algebra. (English summary) **2005h:55013**
Bullejos, M. (*with* Cegarra, Antonio M.) Classifying spaces for monoidal categories through geometric nerves. (English summary) **2005i:18004**
Cegarra, Antonio M. *see* **Bullejos, M., 2005i:18004**
Fajstrup, L. (*with* Raussen, Martin; Goubault, Eric; Haucourt, E.) Components of the fundamental category. (English summary) **2005a:55010**
Goubault, Eric *see* **Fajstrup, L. et al., 2005a:55010**
Haucourt, E. *see* **Fajstrup, L. et al., 2005a:55010**
Raussen, Martin *see* **Fajstrup, L. et al., 2005a:55010**
Rubio García, Julio Jesús (*with* Sergeraert, Francis) Postnikov "invariants" in 2004. (English summary) **2005k:55025**
Schwede, Stefan Morita theory in abelian, derived and stable model categories. **2005m:18015**
Sergeraert, Francis *see* **Rubio García, Julio Jesús, 2005k:55025**

55U99 None of the above, but in this section

Items with secondary classifications in 55U99

Brown, Ronald (*with* İçen, İlhan) Homotopies and automorphisms of crossed modules of groupoids. (English summary) **2005f:18012**
Chorny, Boris Equivariant cellular homology and its applications. (English summary) **2005c:55012**
İçen, İlhan *see* **Brown, Ronald, 2005f:18012**
Park, HeeSook Foundations of the theory of l_1 homology. (English summary) **2005c:55011**
Toën, Bertrand (*with* Vezzosi, Gabriele) From HAG to DAG: derived moduli stacks. (English summary) **2005f:14001**
Vezzosi, Gabriele *see* **Toën, Bertrand, 2005f:14001**

57–XX Manifolds and cell complexes {For complex manifolds, see 32Qxx.}

57–01 Instructional exposition (textbooks, tutorial papers, etc.)

Lima, Elon Lages ★ Introdução à topologia diferencial. (Portuguese) [Introduction to differential topology] **2005h:57001**
Stahl, Saul ★ Introduction to topology and geometry. **2005g:57001**

Items with secondary classifications in 57–01

Collins, Graham P. The shapes of space. **2005a:53108**
Crossley, Martin D. ★ Essential topology. **2005m:54001**
(Gomes, Jonas) *see* **Lima, Elon Lages, 2005c:57001**
Lima, Elon Lages ★ Fundamental groups and covering spaces. **2005c:57001**
Morita, Shigeyuki *see* **Ueno, Kenji et al., 2005e:00003**
Shiga, Koji *see* **Ueno, Kenji et al., 2005e:00003**
(Tyler, Eiko) *see* **Ueno, Kenji et al., 2005e:00003**
Ueno, Kenji (*with* Shiga, Koji; Morita, Shigeyuki) ★ A mathematical gift. II. **2005e:00003**

57–02 Research exposition (monographs, survey articles)

Bukhshtaber, Viktor Matveevich (*with* Panov, T. E.) ★ Торические действия в топологии и комбинаторике. (Russian) [Torus actions in topology and combinatorics] **2005f:57001**
Panov, T. E. *see* **Bukhshtaber, Viktor Matveevich, 2005f:57001**

Items with secondary classifications in 57–02

Arnold, Vladimir Igorevich ★ Arnold's problems. **2005c:58001**
Gross, Paul W. (*with* Kotiuga, P. Robert) ★ Electromagnetic theory and computation: a topological approach. **2005d:78001**
Kotiuga, P. Robert *see* **Gross, Paul W., 2005d:78001**
(Li, Benghe) *see* **Low dimensional topology, 2005b:57001**
Mourão, José M. Aspects of the connections between path integrals, quantum field theory, topology and geometry. (English summary) **2005j:58013**
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(Philippov, V.) *see* **Arnold, Vladimir Igorevich, 2005c:58001**
(Wang, Shi Cheng) *see* **Low dimensional topology, 2005b:57001**
(Yakivchik, A. N.) *see* **Arnold, Vladimir Igorevich, 2005c:58001**
(Zhao, Xuezhi) *see* **Low dimensional topology, 2005b:57001**

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Low dimensional topology ★ Low dimensional topology. **2005b:57001**

57–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 57–03

(Alexander, James W.) *see* **Epple, Moritz, 2005e:01020**
Aubin, David From catastrophe to chaos: the modeling practices of applied topologists. (*see* **2005b:01001**)
Epple, Moritz Knot invariants in Vienna and Princeton during the 1920s: epistemic configurations of mathematical research. (English summary) **2005e:01020**
Keener, James P. The topology of defibrillation. (English summary)
Lassas, Matti From coffee cup to surgery—looking over applications of mathematics. (Finnish)
Lozano Imízcoz, María Teresa The Poincaré conjecture: characterization of the three-dimensional sphere. (Spanish. Spanish summary) (*see* **2005j:00009**)
Muñoz, Vicente One hundred years of the Poincaré conjecture. (Spanish. Spanish summary) **2005m:01020**
(Reidemeister, Kurt) *see* **Epple, Moritz, 2005e:01020**

57–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 57–04

Burton, Benjamin A. Efficient enumeration of 3-manifold triangulations. (English summary) **2005e:57062**

57–06 Proceedings, conferences, collections, etc.

(Li, Benghe) *see* **Low dimensional topology, 2005b:57001**
Przytycki, Józef H. (*with* Wajnryb, Bronisław) Special volume on knot theory and related topics.
Wajnryb, Bronisław *see* **Przytycki, Józef H.**
(Wang, Shi Cheng) *see* **Low dimensional topology, 2005b:57001**
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Beijing ★ Low dimensional topology. **2005b:57001**
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Items with secondary classifications in 57–06

(Abikoff, William) *see* **In the tradition of Ahlfors and Bers, III, 2005m:30001**
(Akbulut, Selman) *see* **Proceedings: Geometry-Topology Conference, 9th Gökova, 2002, 2005m:00009** *and* **Conference: Geometry-Topology, Gökova, 2003, 10th**
(Booß-Bavnbek, Bernhelm) *see* **Spectral geometry of manifolds with boundary and decomposition of manifolds, 2005h:58001**
(Donaldson, Simon K.) *see* **Different faces of geometry, 2005f:00006**
(Eliashberg, Yakov) *see* **Different faces of geometry, 2005f:00006**
(Gromov, Mikhael L.) *see* **Different faces of geometry, 2005f:00006**
(Grubb, Gerd) *see* **Spectral geometry of manifolds with boundary and decomposition of manifolds, 2005h:58001**
(Haas, Andrew Howard) *see* **In the tradition of Ahlfors and Bers, III, 2005m:30001**
(Önder, Turgut) *see* **Proceedings: Geometry-Topology Conference, 9th Gökova, 2002, 2005m:00009** *and* **Conference: Geometry-Topology, Gökova, 2003, 10th**
(Stern, Ronald John) *see* **Proceedings: Geometry-Topology Conference, 9th Gökova, 2002, 2005m:00009** *and* **Conference: Geometry-Topology, Gökova, 2003, 10th**
(Wojciechowski, Krzysztof P.) *see* **Spectral geometry of manifolds with boundary and decomposition of manifolds, 2005h:58001**

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Conference:
  Geometry-Topology, Gökova, 2003, 10th ★ Gökova Geometry-Topology Conference 2003.
Contemporary Mathematics ★ In the tradition of Ahlfors and Bers, III. **2005m:30001**
— ★ Spectral geometry of manifolds with boundary and decomposition of manifolds. **2005h:58001**
Different faces of geometry ★ Different faces of geometry. **2005f:00006**
Gökova ★ Proceedings of Gökova Geometry-Topology Conference 2002. **2005m:00009**
— ★ Gökova Geometry-Topology Conference 2003.
In the tradition of Ahlfors and Bers, III ★ In the tradition of Ahlfors and Bers, III. **2005m:30001**
Proceedings:
  Geometry-Topology Conference, 9th Gökova, 2002 ★ Proceedings of Gökova Geometry-Topology Conference 2002. **2005m:00009**
Roskilde ★ Spectral geometry of manifolds with boundary and decomposition of manifolds. **2005h:58001**
Spectral geometry of manifolds with boundary and decomposition of manifolds ★ Spectral geometry of manifolds with boundary and decomposition of manifolds. **2005h:58001**
Storrs, CT ★ In the tradition of Ahlfors and Bers, III. **2005m:30001**

57Mxx Low-dimensional topology

57M05 Fundamental group, presentations, free differential calculus

Bayram, Mustafa *see* **Küçük, Ahmet**
Button, J. O. Strong Tits alternatives for compact 3-manifolds with boundary. (English summary) **2005f:57002**
Dąbkowski, Mieczysław K. (*with* Przytycki, Józef H.; Togha, Amir A.) Non-left-orderable 3-manifold groups. (English summary) **2005k:57001**
Deloup, Florian The fundamental group of the circle is trivial. **2005k:57002**
Farb, Benson (*with* Ivanov, Nikolai V.) The Torelli geometry and its applications: research announcement.
(Gomes, Jonas) *see* **Lima, Elon Lages, 2005c:57001**
Ivanov, Nikolai V. *see* **Farb, Benson**
Küçük, Ahmet The fundamental group of an oriented surface of genus n with k boundary surfaces. (English summary)
— (*with* Bayram, Mustafa) Automatic calculation of the fundamental group of an oriented surface of genus n with k boundary surfaces. (English summary)
Lima, Elon Lages ★ Fundamental groups and covering spaces. **2005c:57001**
Lopes, Pedro (*with* Morales, Carlos Arnoldo) The knot group and the fundamental group of the embedding 3-manifold. (English summary) **2005k:57003**
Miller, Carl Exponential iterated integrals and the relative solvable completion of the fundamental group of a manifold. (English summary) **2005j:57001**
Morales, Carlos Arnoldo *see* **Lopes, Pedro, 2005k:57003**
Przytycki, Józef H. *see* **Dąbkowski, Mieczysław K. et al., 2005k:57001**
Togha, Amir A. *see* **Dąbkowski, Mieczysław K. et al., 2005k:57001**

Items with secondary classifications in 57M05

Allenby, R. B. J. T. (*with* Kim, Goansu; Tang, Francis C. Y.) Residual finiteness of outer automorphism groups of finitely generated non-triangle Fuchsian groups. (English summary) **2005k:20071**
— (*with* Kim, Goansu; Tang, Francis C. Y.) Conjugacy separability of certain Seifert 3-manifold groups. (English summary) **2005k:20072**
Auroux, Denis (*with* Donaldson, Simon K.; Katzarkov, Ludmil; Yotov, Mirroslav Tzanov) Fundamental groups of complements of plane curves and symplectic invariants. (English summary) **2005e:53140**
Azcan, Hüseyin *see* **Uygur, Tangül, 2005b:57023**
Bowditch, Brian H. Planar groups and the Seifert conjecture. (English summary) **2005h:57033**
Bunge, Marta Galois groupoids and covering morphisms in topos theory. (English summary) **2005g:18006**
Castel, Fabrice Centralisateurs dans les groupes à dualité de Poincaré de dimension 3. (English and French summaries) [Centralizers in PD(3) groups] **2005d:57033**
Conner, Greg (*with* Eda, Katsuya) Fundamental groups having the whole information of spaces. (English summary) **2005k:55019**
Donaldson, Simon K. *see* **Auroux, Denis et al., 2005e:53140**
Eda, Katsuya *see* **Conner, Greg, 2005k:55019**
Friedman, Greg Groups of locally-flat disk knots and non-locally-flat sphere knots. (English summary) **2005m:57035**
Glock, Janina (*with* Hog-Angeloni, Cynthia I.) Embeddings of 2-complexes into 3-manifolds. (English summary) **2005k:57006**

Goda, Hiroshi (*with* Kitano, Teruaki; Morifuji, Takayuki) Reidemeister torsion, twisted Alexander polynomial and fibered knots. (English summary) **2005m:57008**
Hog-Angeloni, Cynthia I. *see* **Glock, Janina**, **2005k:57006**
Katzarkov, Ludmil *see* **Auroux, Denis et al.**, **2005e:53140**
Kim, Goansu *see* **Allenby, R. B. J. T. et al.**, **2005k:20071** *and* **2005k:20072**
Kitano, Teruaki (*with* Morifuji, Takayuki; Takasawa, Mitsuhiko) L^2-torsion invariants of a surface bundle over S^1. (English summary) **2005e:57061**
— *see also* **Goda, Hiroshi et al.**, **2005m:57008**
Matveev, Sergei (*with* Perfil′ev, Andreĭ Andreevich) Periodicity of degrees of mappings between Seifert manifolds. (Russian) **2005m:57030**
Morales, Carlos Arnoldo 3-manifolds supporting Anosov flows and Abelian normal subgroups. (English summary) **2005d:57032**
Morifuji, Takayuki *see* **Kitano, Teruaki et al.**, **2005e:57061** *and* **Goda, Hiroshi et al.**, **2005m:57008**
Näätänen, Marjatta *see* **Nakanishi, Toshihiro**, **2005k:30078**
Nakanishi, Toshihiro (*with* Näätänen, Marjatta) Complexification of lambda length as parameter for $SL(2,\mathbb{C})$ representation space of punctured surface groups. (English summary) **2005k:30078**
Neto, Orlando (*with* Silva, Pedro C.) The fundamental group of an algebraic link. (English and French summaries) **2005m:32059**
Perfil′ev, Andreĭ Andreevich *see* **Matveev, Sergei**, **2005m:57030**
Perron, Bernard Homomorphic extensions of Johnson homomorphisms via Fox calculus. (English and French summaries) **2005k:57034**
— Mapping class group and the Casson invariant. (English and French summaries) **2005k:57035**
Silva, Pedro C. *see* **Neto, Orlando**, **2005m:32059**
Silver, Daniel S. (*with* Williams, Susan G.) On a class of virtual knots with unit Jones polynomial. (English summary) **2005f:57016**
Takasawa, Mitsuhiko *see* **Kitano, Teruaki et al.**, **2005e:57061**
Tang, Francis C. Y. *see* **Allenby, R. B. J. T. et al.**, **2005k:20071** *and* **2005k:20072**
Uygur, Tangül (*with* Azcan, Hüseyin) The space of irreducible SU(2) representations of the twist knots. (English summary) **2005b:57023**
Williams, Susan G. *see* **Silver, Daniel S.**, **2005f:57016**
Xie, Xiangdong Tits alternative for closed real analytic 4-manifolds of nonpositive curvature. (English summary) **2005a:53056**
Yotov, Mirroslav Tzanov *see* **Auroux, Denis et al.**, **2005e:53140**

57M07 Topological methods in group theory

Anderson, James W. Variations on a theme of Horowitz. (English summary) **2005h:57002**
Bacher, Roland Le cocycle du verger. (English and French summaries) [The orchard cocycle] **2005b:57002**
Bedenikovic, Tony A class of 3-complexes with infinite cyclic fundamental group. (English summary) **2005d:57001**
Bennett, Curtis D. (*with* Shpektorov, S. V.) A new proof of a theorem of Phan. (English summary) **2005k:57004**
Cárdenas Escudero, Manuel Enrique (*with* Lasheras, Francisco F.; Roy, Ranja) Direct products and properly 3-realisable groups. (English summary) **2005g:57002**
Charney, Ruth (*with* Meier, John) The language of geodesics for Garside groups. (English summary) **2005g:57003**
Davis, Michael Walter (*with* Meier, John) Reflection groups and CAT(0) complexes with exotic local structures. (English summary) **2005c:57002**
Gitik, Rita On the profinite topology on Coxeter groups. (English summary) **2005f:57003**
Hosaka, Tetsuya The interior of the limit set of groups. (English summary) **2005e:57001**
— Dense subsets of the boundary of a Coxeter system. (English summary) **2005g:57004**
Hughes, C. Bruce Trees and ultrametric spaces: a categorical equivalence. (English summary) **2005m:57001**
Korkmaz, Mustafa Stable commutator length of a Dehn twist. **2005b:57003**
Lasheras, Francisco F. *see* **Cárdenas Escudero, Manuel Enrique et al.**, **2005g:57002**
Leininger, Christopher J. On groups generated by two positive multi-twists: Teichmüller curves and Lehmer's number. (English summary) **2005j:57002**
Meier, John *see* **Davis, Michael Walter**, **2005c:57002** *and* **Charney, Ruth**, **2005g:57003**
Ontaneda, Pedro Cocompact CAT(0) spaces are almost geodesically complete. (English summary) **2005m:57002**
Reiner, Victor (*with* Webb, Peter) The combinatorics of the bar resolution in group cohomology. (English summary) **2005i:57001**
Roy, Ranja *see* **Cárdenas Escudero, Manuel Enrique et al.**, **2005g:57002**
Shpektorov, S. V. *see* **Bennett, Curtis D.**, **2005k:57004**
Szepietowski, Błażej Involutions in mapping class groups of non-orientable surfaces. (English summary) **2005f:57004**
Webb, Peter *see* **Reiner, Victor**, **2005i:57001**

Items with secondary classifications in 57M07

Alibegović, Emina A combination theorem for relatively hyperbolic groups. (English summary) **2005m:20092**
Allenby, R. B. J. T. (*with* Kim, Goansu; Tang, Francis C. Y.) Residual finiteness of outer automorphism groups of finitely generated non-triangle Fuchsian groups. (English summary) **2005k:20071**
Andreian Cazacu, Cabiria Complete Klein coverings. (English and Polish summaries) **2005e:30074**
Bahls, Patrick Strongly rigid even Coxeter groups. (English summary) **2005i:20063**
Ben-Itzhak, T. (*with* Teicher, Mina) Hurwitz equivalence in the braid group B_3. (English summary) **2005b:20067**
Benkhalifa, Mahmoud *see* **Elrifai, E. A.**, **2005c:20061**
Berrick, A. J. (*with* Wong, Yan-Loi) Acyclic groups and wild arcs. (English summary) **2005i:20080**
Bestvina, Mladen (*with* Feighn, Mark; Handel, Michael) Solvable subgroups of $\mathrm{Out}(F_n)$ are virtually Abelian. (English summary) **2005b:20073**
Bogopol′skiĭ, O. V. (*with* Kudryavtseva, E. A.; Zieschang, Heiner) Simple curves on surfaces and an analog of a theorem of Magnus for surface groups. (English summary) **2005k:20087**
Breda d'Azevedo, Antonio J. *see* **Wilson, Stephen E.**, **2005b:05076**
Brin, Matthew G. Higher dimensional Thompson groups. **2005m:20008**
Bumagina, Inna The conjugacy problem for relatively hyperbolic groups. (English summary) **2005k:20103**
— The Hopf property for subgroups of hyperbolic groups. (English summary) **2005e:20061**
Button, J. O. Strong Tits alternatives for compact 3-manifolds with boundary. (English summary) **2005f:57002**
Cavicchioli, Alberto (*with* Repovš, Dušan D.; Spaggiari, Fulvia) Families of group presentations related to topology. (English summary) **2005m:20075**
Charney, Ruth (*with* Meier, John; Whittlesey, K.) Bestvina's normal form complex and the homology of Garside groups. (English summary) **2005e:20057**
— The Deligne complex for the four-strand braid group. (English summary) **2005a:20054**
Cohen, Frederick R. (*with* Wu, Jie[4]) On braid groups, free groups, and the loop space of the 2-sphere. (English summary) **2005b:55011**
Conner, Greg (*with* Eda, Katsuya) Fundamental groups having the whole information of spaces. (English summary) **2005k:55019**
Crisp, John S. (*with* Paoluzzi, Luisa) On the classification of CAT(0) structures for the 4-string braid group. **2005j:20039**
Dahmani, François ★ Les groupes relativement hyperboliques et leurs bords. (French summary) [Relatively hyperbolic groups and their boundaries] **2005m:20099**
Davis, Michael Walter (*with* Okun, Boris L.) l^2-homology of right-angled Coxeter groups based on barycentric subdivisions. (English summary) **2005c:20088**
Díaz-Cantos, Jerónimo (*with* González-Meneses, Juan; Tornero, José M.) On the singular braid monoid of an orientable surface. (English summary) **2005c:20060**
Dutenhefner, Francisco (*with* Gusevskiĭ, N. A.) Complex hyperbolic Kleinian groups with limit set a wild knot. (English summary) **2005a:30074**
Eda, Katsuya *see* **Conner, Greg**, **2005k:55019**
Elrifai, E. A. (*with* Benkhalifa, Mahmoud) On the conjugacy problem of positive braids. (English summary) **2005c:20061**
Emerson, Heath Noncommutative Poincaré duality for boundary actions of hyperbolic groups. (English summary) **2005e:19007**
Everitt, Brent Coxeter groups and hyperbolic manifolds. (English summary) **2005m:20090**
Feighn, Mark *see* **Bestvina, Mladen et al.**, **2005b:20073**
Forester, Max On uniqueness of JSJ decompositions of finitely generated groups. (English summary) **2005b:20075**
Fumagalli, Francesco On the homotopy type of the Quillen complex of finite soluble groups. (English summary) **2005h:20044**
Gautero, François Hyperbolicity of mapping-torus groups and spaces. (English summary) **2005e:20063**
Gonçalves, Daciberg Lima (*with* Guaschi, John) On the structure of surface pure braid groups. (English summary) **2005f:20067**
González-Meneses, Juan *see* **Díaz-Cantos, Jerónimo et al.**, **2005c:20060**
Guaschi, John *see* **Gonçalves, Daciberg Lima**, **2005f:20067**
Gusevskiĭ, N. A. *see* **Dutenhefner, Francisco**, **2005a:30074**
Handel, Michael *see* **Bestvina, Mladen et al.**, **2005b:20073**
Hatcher, Allen (*with* Vogtmann, Karen) Homology stability for outer automorphism groups of free groups. (English summary) **2005j:20038**
Hosaka, Tetsuya Coxeter systems with two-dimensional Davis-Vinberg complexes. (English summary) **2005i:20065**
Howie, James (*with* Shwartz, Robert) One-relator products induced from generalized triangle groups. (English summary) **2005j:20035**
Humphries, Stephen P. Finite Hurwitz braid group actions for Artin groups. (English summary) **2005i:20061**
Ivanov, Nikolai V. Examples of large centralizers in the Artin braid groups. **2005a:20056**
Ivanov, S. G. Codes of m-complexity 1. (English summary) **2005f:20058**
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57M20 Two-dimensional complexes

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57N15 Topology of E^n, n-manifolds $(4 < n < \infty)$

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57N25 Shapes [see also 54C56, 55P55, 55Q07]

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57N37 Isotopy and pseudo-isotopy

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57N45 Flatness and tameness

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57N60 Cellularity

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57N70 Cobordism and concordance

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57N80 Stratifications

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57Pxx Generalized manifolds [see also 18F15]

57P05 Local properties of generalized manifolds

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57Qxx PL-topology

57Q05 General topology of complexes

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Kitano, Teruaki (*with* Morifuji, Takayuki; Takasawa, Mitsuhiko) L^2-torsion invariants of a surface bundle over S^1. (English summary) **2005e:57061**
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57Q15 Triangulating manifolds

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57Q20 Cobordism

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57Q25 Comparison of PL-structures: classification, Hauptvermutung

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57Q37 Isotopy

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57Q40 Regular neighborhoods

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57R35 Differentiable mappings

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57R60 Homotopy spheres, Poincaré conjecture

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57R65 Surgery and handlebodies

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57R67 Surgery obstructions, Wall groups [see also 19J25]

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— (*with* Muranov, Yu. V.; Spaggiari, Fulvia) Relative groups in surgery theory. (English summary) **2005m:57046**
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57R70 Critical points and critical submanifolds

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57R75 O- and SO-cobordism

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Liu, Xi Bo *see* **Jiang, Yun Feng et al.**
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57R77 Complex cobordism (U- and SU-cobordism) [see also 55N22]

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57R80 h- and s-cobordism

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57R85 Equivariant cobordism

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Komiya, Katsuhiro The divisibility in the cut-and-paste group of G-manifolds and fibring over the circle within a cobordism class. (English summary) **2005m:57049**
Liu, Zuo (*with* Wu, Zhen De) $(Z_2)^k$-actions with fixed point set of constant codimension $2^k + 2$. (English summary) **2005k:57055**
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57R90 Other types of cobordism [see also 55N22]

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57R91 Equivariant algebraic topology of manifolds

Items with secondary classifications in 57R91

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Komiya, Katsuhiro The divisibility in the cut-and-paste group of G-manifolds and fibring over the circle within a cobordism class. (English summary) **2005m:57049**
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57R95 Realizing cycles by submanifolds

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57R99 None of the above, but in this section

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57Sxx Topological transformation groups [see also 20F34, 22–XX, 37–XX, 54H15, 58D05]

57S05 Topological properties of groups of homeomorphisms or diffeomorphisms

Brendle, Tara E. (*with* Margalit, Dan) Commensurations of the Johnson kernel. (English summary) **2005j:57041**
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Dijkstra, Jan J. (*with* van Mill, Jan) Homeomorphism groups of manifolds and Erdős space. (English summary) **2005c:57025**
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57S10 Compact groups of homeomorphisms

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57S15 Compact Lie groups of differentiable transformations

Püttmann, Thomas (*with* Rigas, A. G.) Isometric actions on the projective planes and embedded generators of homotopy groups. (English summary) **2005b:57063**
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57S17 Finite transformation groups

Bak, Anthony (*with* Morimoto, Masaharu) The dimension of spheres with smooth one fixed point actions. (English summary) **2005m:57048**
Cai, Hui Ping (*with* Liang, Wei Li) Involution fixing the Dold manifold $P(1, 2^n)$. (Chinese. English and Chinese summaries)
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57Txx Homology and homotopy of topological groups and related structures

57T05 Hopf algebras [see also 16W30]

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57T10 Homology and cohomology of Lie groups

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57T15 Homology and cohomology of homogeneous spaces of Lie groups

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Duan, Hai Bao (*with* Zhao, Xu An) The height function on the 2-dimensional cohomology of a flag manifold. (English summary) **2005i:14060**
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57T20 Homotopy groups of topological groups and homogeneous spaces

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— *see also* **Bendersky, Martin**, **2005j:55017**
Lin, Fang Hua (*with* Yang, Yi Song) The Faddeev knots as stable solitons: existence theorems. (English summary) **2005e:58033**
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57T25 Homology and cohomology of H-spaces

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57T30 Bar and cobar constructions [see also 18G55, 55Uxx]

Kadeishvili, Tornike Measuring the noncommutativity of DG-algebras. **2005f:57052**

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57T35 Applications of Eilenberg-Moore spectral sequences [see also 55R20, 55T20]

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— *see also* **Kono, Akira[1]**, **2005f:55010**

57T99 None of the above, but in this section

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58–XX Global analysis, analysis on manifolds {For geometric integration theory, see 49Q15.}

58–01 Instructional exposition (textbooks, tutorial papers, etc.)

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58–02 Research exposition (monographs, survey articles)

Arnold, Vladimir Igorevich ★ Arnold's problems. **2005c:58001**
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58–03 Historical (must also be assigned at least one classification number from Section 01)

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— *see also* **Founders of index theory: reminiscences of Atiyah, Bott, Hirzebruch, and Singer**, **2005m:01027**
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58Axx General theory of differentiable manifolds [see also 32Cxx]

58A03 Topos-theoretic approach to differentiable manifolds

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58Bxx Infinite-dimensional manifolds

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58B15 Fredholm structures [see also 47A53]

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58Cxx Calculus on manifolds; nonlinear operators [see also 46Txx, 47Hxx, 47Jxx]

58C05 Real-valued functions

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58C06 Set valued and function-space valued mappings [see also 47H04, 54C60]

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58C07 Continuity properties of mappings

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58C30 Fixed point theorems on manifolds [see also 47H10]

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58C40 Spectral theory; eigenvalue problems [see also 47J10, 58E07]

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58C50 Analysis on supermanifolds or graded manifolds

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58Dxx Spaces and manifolds of mappings [see also 46Txx, 53Cxx]

58D05 Groups of diffeomorphisms and homeomorphisms as manifolds [see also 22E65, 57S05]

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58D15 Manifolds of mappings [see also 46T10, 54C35]

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58D27 Moduli problems for differential geometric structures

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58Exx Variational problems in infinite-dimensional spaces

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58E11 Critical metrics

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Katagiri, Minyo On conformally flat critical Riemannian metrics for a curvature functional. (English summary) **2005i:53040**
Koda, Takashi Almost Kähler structures with a fixed Kähler class. (English summary) **2005m:53042**
LeBrun, Claude Scalar curvature, covering spaces, and Seiberg-Witten theory. (English summary) **2005a:53062**
— Curvature functionals, optimal metrics, and the differential topology of 4-manifolds. **2005h:53055**
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58E12 Applications to minimal surfaces (problems in two independent variables) [see also 49Q05]

Hayasida, Kazuya (*with* Ikeda, Yoshiaki) Dirichlet problem for evolutionary surfaces of prescribed mean curvature in a non-convex domain. (English summary) **2005g:58023**
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Pacard, Frank (*with* Ritoré, Manuel) From constant mean curvature hypersurfaces to the gradient theory of phase transitions. (English summary) **2005e:58018**
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Chang, Kung-Ching (*with* Liu, Jia-quan) An evolution of minimal surfaces with Plateau condition. **2005b:53106**
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Harrison, Jenny On Plateau's problem for soap films with a bound on energy. (English summary) **2005j:49037**
Hildebrandt, Stefan (*with* von der Mosel, Heiko) Dominance functions for parametric Lagrangians. (English summary) **2005f:49057**
Koiso, Miyuki (*with* Palmer, Bennett) On a variational problem for soap films with gravity and partially free boundary. (English summary) **2005j:49035**
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58E15 Application to extremal problems in several variables; Yang-Mills functionals [see also 81T13], etc.

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Manton, N. S. (*with* Schroers, B. J.; Singer, Michael A.[1]) The interaction energy of well-separated Skyrme solitons. (English summary) **2005g:58024**
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Tao, Terence C. (*with* Tian, Gang) A singularity removal theorem for Yang-Mills fields in higher dimensions. **2005f:58013**
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Schoen, Richard (*with* Wolfson, Jon) The volume functional for Lagrangian submanifolds. **2005f:53141**
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58E17 Pareto optimality, etc., applications to economics [see also 90C29]

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58E20 Harmonic maps [see also 53C43], etc.

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Chervon, Sergei V. (*with* Romero, C. A.) Harmonic maps as a subclass of isometric embeddings of the spacetime in five dimensions. (English summary) **2005d:58026**
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Choi, Gundon (*with* Yun, Gabjin) A theorem of Liouville type for p-harmonic morphisms. (English summary) **2005a:58022**
Eells, J. On the mathematical contributions of Giorgio Valli. (English and Italian summaries) **2005c:58028**
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Fuglede, Bent Finite energy maps from Riemannian polyhedra to metric spaces. (English summary) **2005b:58018**
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Hesse, M. (*with* Rumpf, Martin; Sturm, Karl-Theodor) Discretization and convergence for harmonic maps into trees. (English summary) **2005g:58028**
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Lei, Yu Tian Asymptotic behavior for minimizers of a p-energy functional associated with p-harmonic maps. (English summary) **2005f:58014**
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Topping, Peter Bubbling of almost-harmonic maps between 2-spheres at points of zero energy density. (English summary) **2005d:58029**
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Wei, Shihshu Walter p-harmonic maps with applications. (English summary) **2005c:58031**
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Yang, Yi-Hu A note on locally real hyperbolic space with finite volume. (English summary) **2005d:58030**
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— (*with* El Soufi, Ahmad; Fardoun, Ali; Regbaoui, Rachid) Introduction: best maps and best metrics. **2005c:53039**
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58E25 Applications to control theory [see also 49–XX, 93–XX]

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58E35 Variational inequalities (global problems)

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58E40 Group actions

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58Hxx Pseudogroups, differentiable groupoids and general structures on manifolds

58H05 Pseudogroups and differentiable groupoids [see also 22A22, 22E65]

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58H15 Deformations of structures [see also 32Gxx, 58J10]

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58H99 None of the above, but in this section

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58Jxx Partial differential equations on manifolds; differential operators [see also 32Wxx, 35–XX, 53Cxx]

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58J05 Elliptic equations on manifolds, general theory [see also 35–XX]

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58J52 Determinants and determinant bundles, analytic torsion

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58J53 Isospectrality

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58J55 Bifurcation [see also 35B32]

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58J60 Relations with special manifold structures (Riemannian, Finsler, etc.)

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58J65 Diffusion processes and stochastic analysis on manifolds [see also 35R60, 60H10, 60J60]

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58J72 Correspondences and other transformation methods (e.g. Lie-Bäcklund) [see also 35A22]

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— *see also* **Sorin, A. S., 2005f:37151**
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58J90 Applications

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58J99 None of the above, but in this section

Items with secondary classifications in 58J99

Berezanskiĭ, Yuriĭ Makarovich The generalized moment problem associated with correlation measures. (Russian) **2005e:47057**

58Kxx Theory of singularities and catastrophe theory [see also 32Sxx, 37–XX]

Items with secondary classifications in 58Kxx

(Mond, David) *see* **Real and complex singularities, 2005a:58003**
(Saia, Marcelo José) *see* **Real and complex singularities, 2005a:58003**

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Real and complex singularities ★ Real and complex singularities. **2005a:58003**
São Carlos ★ Real and complex singularities. **2005a:58003**

58K05 Critical points of functions and mappings

Jelonek, Zbigniew On asymptotic critical values and the Rabier theorem. (English summary) **2005k:58068**
Tari, Farid Two-parameter families of implicit differential equations. (English summary) **2005m:58083**
Ţopan, Liana Critical and vector critical sets in the plane. (English summary) **2005a:58058**
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Giorgadze, Gia Quadratic mappings and configuration spaces. (English summary) **2005a:58064**
Guckenheimer, John (*with* Xiang, Yongjian) Defining equations for bifurcations and singularities. (English and Russian summaries) **2005g:58075**
Izumiya, Shyuichi (*with* Pei, Donghe; Sano, Takasi) Horospherical surfaces of curves in hyperbolic space. (English summary) **2005b:53022**
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Prishlyak, A. O. Regular functions on closed three-dimensional manifolds. (Russian. English summary) **2005h:57042**
Rodrigues Costa, Sueli I. *see* **Pansonato, Claudia C., 2005e:53003**
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Shustin, Evgeniĭ Analytic order of singular and critical points. (English summary) **2005d:14040**
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Takeuchi, Nobuko *see* **Izumiya, Shyuichi, 2005e:53002**
Xiang, Yongjian *see* **Guckenheimer, John, 2005g:58075**

58K10 Monodromy

Goryunov, V. V. (*with* Zakalyukin, V. M.) Simple symmetric matrix singularities and the subgroups of Weyl groups A_μ, D_μ, E_μ. (English and Russian summaries) **2005g:58074**
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Xiang, Yongjian *see* **Guckenheimer, John, 2005g:58075**
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Items with secondary classifications in 58K10

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Jeddi, Ahmed *see* **Barlet, Daniel, 2005f:58078**
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58K15 Topological properties of mappings

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58K20 Algebraic and analytic properties of mappings

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58K30 Global theory

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58K35 Catastrophe theory

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58K40 Classification; finite determinacy of map germs

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58K45 Singularities of vector fields, topological aspects

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58K50 Normal forms

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58K55 Asymptotic behavior

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58K60 Deformation of singularities

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58K65 Topological invariants

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58K70 Symmetries, equivariance

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58Z05 Applications to physics

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